Home Laundry Dryers

HE–HG Series and FE0080

Refer to Page 6 for Model Numbers

Service

Alliance Laundry Systems

www.comlaundry.com

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Section 1
Safety Information

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION," "WARNING," and "DANGER") followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

⚠ DANGER

Danger indicates the presence of a hazard that **will** cause **severe** personal injury, death, or substantial property damage if the danger is ignored.

⚠ WARNING

Warning indicates the presence of a hazard that **can** cause **severe** personal injury, death, or substantial property damage if the warning is ignored.

⚠ CAUTION

Caution indicates the presence of a hazard that **will** or **can** cause **minor** personal injury or property damage if the caution is ignored.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT

The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE

The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.

WARNING

- **Failure to install, maintain and/or operate this product according to the manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.**
- **Do not repair or replace any part of the product or attempt any servicing unless specifically recommended or published in this Service Manual and that you understand and have the skills to carry out.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the product is properly grounded and to reduce the risk of fire, electric shock, serious injury or death.**

W006R1

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you, or the inexperienced person making such repairs, to the risk of serious injury, electrical shock or death.

W007

WARNING

If you or an unqualified person perform service on your product, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W008

NOTE: The WARNINGS and IMPORTANT INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the dryer.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

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Section 2
Introduction

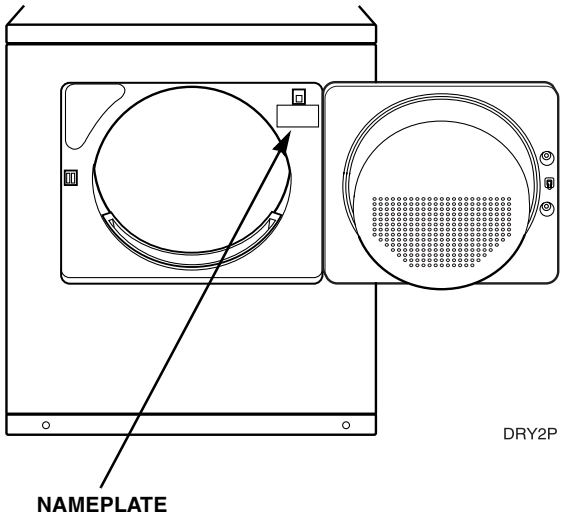
Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

Nameplate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.



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Model Identification

Information in this manual is applicable to these dryers.

Electric			Gas		
HE9270	HE5330	HE4030	HG9280	HG5390	HG4009
HE9250	HE5003	HE4003	HG9260	HG5009	HG3009
HE7230	HE4503	HE3060	HG7290	HG4509	HG2980
HE7003	HE4430	HE3003	HG7009	HG4490	HG2490
HE6650	HE4350	HE2970	HG6660	HG4390	HG2260
HE6434	HE4330	HE2430	HG6494	HG4360	HG2090
HE6430	HE4270	HE2250	HG6490	HG4280	
HE6370	HE4203	HE2050	HG6380	HG4209	
HE6350	HE4103	HE2030	HG6360	HG4109	
HE6003	HE4070	HE2003	HG6009	HG4080	
		FE0080			

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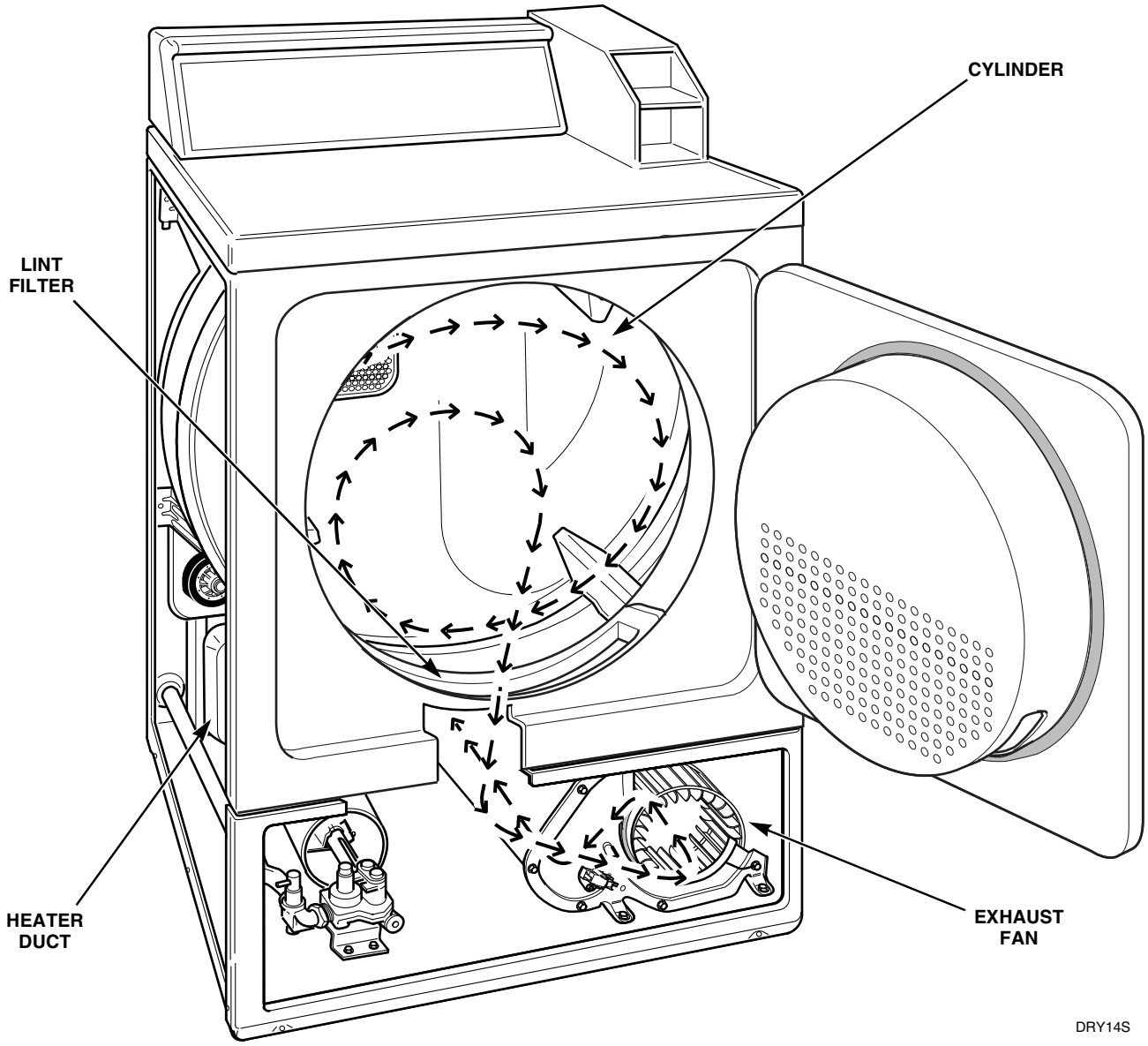
How Your Dryer Works



The dryer uses heated air to dry loads of laundry. When the motor is started, the exhaust fan pulls air in through louvers at the rear of the dryer and over the heat source (burner flame for gas and heating element for electric). The heated air moves through the heater duct and into the cylinder, where it circulates through the wet load. The air then passes through the lint filter, air duct, and exhaust fan, where it is vented to the outdoors.

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Section 3
Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

IMPORTANT: Refer to appropriate model wiring diagram for aid in testing dryer components.

1. MOTOR DOES NOT RUN

POSSIBLE CAUSE	TO CORRECT
Electrical power off, fuse blown, or power cord not plugged in.	• Be sure to check both fuses on electric models.
Loading door not closed or inoperative door switch.	• Close door or test switch and replace if inoperative.
Motor overload protector has cycled.	• Wait two or three minutes for overload protector to reset. Refer to *Paragraph 2* if protector cycles repeatedly.
Timer improperly set.	• Reset timer.
Inoperative motor switch.	• Test switch and replace if inoperative.
Start circuit not completed.	• Press start switch button, or test switch and replace if inoperative.
Inoperative motor.	• Test motor and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	• Refer to appropriate wiring diagram.

2. MOTOR OVERLOAD PROTECTOR CYCLES REPEATEDLY

POSSIBLE CAUSE	TO CORRECT
Incorrect voltage.	• Refer to ***Installation Instructions*** (supplied with dryer) for electrical requirements.
Clothes load too large	• Remove part of load. A normal washer load is a normal dryer load.
Clothes cylinder is binding	• Check cylinder for binding and “out of round” condition. Also check front and rear bulkheads for warping. Check support rollers for binding. Check cylinder seals and glides for wear or damage.
Inoperative motor overload protector.	• Replace drive motor.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

3. MOTOR RUNS BUT CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Motor drive pulley loose.	• Tighten setscrew. Refer to *Figure 29*.
Broken cylinder belt.	• Replace belt.
Clothes cylinder is binding.	• Check cylinder for binding and “out of round” condition. • Check front and rear bulkheads for warping. • Check cylinder rollers for binding. • Check cylinder seals and glides for wear or damage.
Broken or disconnected idler lever spring.	• Replace or reconnect spring. Refer to *Figure 29*.

4. MOTOR DOES NOT STOP

POSSIBLE CAUSE	TO CORRECT
Incorrect wiring.	• Refer to appropriate wiring diagram.
Motor centrifugal switch sticky or plugged with lint.	• Remove dust or lint and spray with “Slyde”, No. 131P4, to clean and lubricate.
Inoperative door switch.	• Test switch and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.

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WARNING

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- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

5. HEATING ELEMENT DOES NOT HEAT AND BURNER DOES NOT IGNITE

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Blown fuse or tripped circuit breaker.	• Check fuses or circuit breakers.
Temperature selector switch set at FLUFF, or inoperative.	• Reset switch, or test switch and replace if inoperative.
Timer improperly set.	• Reset timer.
Inoperative limit thermostat.	• Test thermostat and replace if inoperative.
Electric Models: Inoperative heating element.	• Replace element.
Gas Models: Insufficient gas supply.	• Open partially closed gas shut-off valve, or correct low gas pressure.
Inoperative drive motor switch.	• Test switch and replace if inoperative.
Gas Models: Inoperative gas valve coils.	• Test coils and replace if inoperative.
Gas Models: Inoperative igniter.	• Test igniter and replace if inoperative.
Gas Models: Inoperative sensor.	• Test sensor and replace if inoperative.
Inoperative high or low thermostat.	• Test thermostat and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	• Refer to appropriate wiring diagram.

6. IGNITER DOES NOT GLOW (Gas Supply Sufficient) – GAS MODELS

POSSIBLE CAUSE	TO CORRECT
No power to power leads on valve.	• Check timer, selector switch, thermostats, motor switch and wiring.
Sensor failed with contacts open.	• Replace sensor.
Igniter broken or open.	• Replace igniter.

7. BURNER IGNITES AND GOES OUT REPEATEDLY – GAS MODELS

POSSIBLE CAUSE	TO CORRECT
Burner heat not holding sensor contacts open.	• Replace sensor, or correct gas supply problem.
Insufficient gas supply.	• Check gas supply and pressure.
Valve coils cycle rapidly.	• Replace igniter bracket.

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WARNING

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- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

8. IGNITER GLOWS BUT BURNER DOES NOT IGNITE – GAS MODELS

POSSIBLE CAUSE	TO CORRECT
Sensor failed in closed position.	• Replace sensor.
Open secondary coil or holding coil.	• Replace gas valve (in-warranty), or replace coils (out-of-warranty) with Kit No. 56225A. Refer to *Paragraph 45*.
Insufficient gas supply.	• Check gas supply and pressure.

9. HEATING ELEMENT OR BURNER SHUTS OFF PREMATURELY

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Gas Models: Insufficient gas supply.	• Open partially closed gas shut-off valve, or correct low pressure.
Gas Models: Dryer not properly equipped with orifice for type of gas being used.	• Refer to “Gas Burner Conversion Procedures” in this manual to convert burner.
Gas Models: Improperly adjusted burner flame.	• Adjust flame. Refer to *Paragraph 69*.
Cycling off on limit thermostat.	• Momentarily connect a jumper wire across thermostat terminals. Refer to *Paragraph 10* if heating element heats or burner ignites when jumper wire is connected.
Gas models: Sensor contact closing prematurely. Burner flame improperly adjusted.	• Replace sensor. Adjust burner flame.
Inoperative high or low thermostat.	• Test thermostat and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	• Refer to appropriate wiring diagram.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

10. HEATING ELEMENT OR BURNER REPEATEDLY CYCLES OFF ON LIMIT THERMOSTAT

POSSIBLE CAUSE	TO CORRECT
External exhaust system longer than recommended.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust system requirements.
Clogged lint filter.	• Remove and clean lint filter.
Lint in internal dryer ductwork.	• Disassemble dryer and clean ductwork.
Lint in external exhaust system.	• Disassemble exhaust system and clean.
Hinged damper on exhaust system weather hood not free to open.	• Free hinged damper or replace weather hood
Limit thermostat cycling at too low a temperature.	• Replace thermostat, *Paragraph 47*.
Air leak around loading door. (Door not sealing properly against outer door seal due to damaged seal or inoperative door catch.)	• Replace seal or catch.
Air leak at front or rear cylinder seal.	• Check and replace seal if necessary.

11. HEATING ELEMENT OR BURNER DOES NOT SHUT OFF

POSSIBLE CAUSE	TO CORRECT
Improper motor switch.	• Test switch and replace if inoperative.
Motor does not stop.	• Refer to *Paragraph 4*.
Incorrect wiring.	• Refer to appropriate wiring diagram.

12. CLOTHES DO NOT DRY

POSSIBLE CAUSE	TO CORRECT
Heating element does not heat or burner does not ignite.	• Refer to *Paragraph 5*.
Too much water in articles being dried.	• Remove excess water.
Clothes load too large.	• Remove part of load. A normal washer load is a normal dryer load.
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Heating element or burner shuts off prematurely.	• Refer to *Paragraph 9*.
Gas Models: Gas line pressure too high or too low.	• If natural gas line pressure to dryer exceeds 8 inch water column pressure, or is lower than 4 inch water column, ask gas company to correct.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

13. TIMER DOES NOT ADVANCE IN AUTOMATIC CYCLE

POSSIBLE CAUSE	TO CORRECT
Inoperative high or low thermostat.	• Test thermostat and replace if inoperative.
Heating element does not heat or burner does not ignite.	• Refer to *Paragraph 5*.
Heating element or burner cycles off prematurely.	• Refer to *Paragraph 9*.
Timer improperly set in FLUFF.	• Reset timer.
Broken, loose or incorrect wiring.	• Refer to appropriate wiring diagram.

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Section 4
Grounding

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

14. MOTOR MOUNTING BRACKET TO MOTOR (Gas and Electric Models)
Figure 1

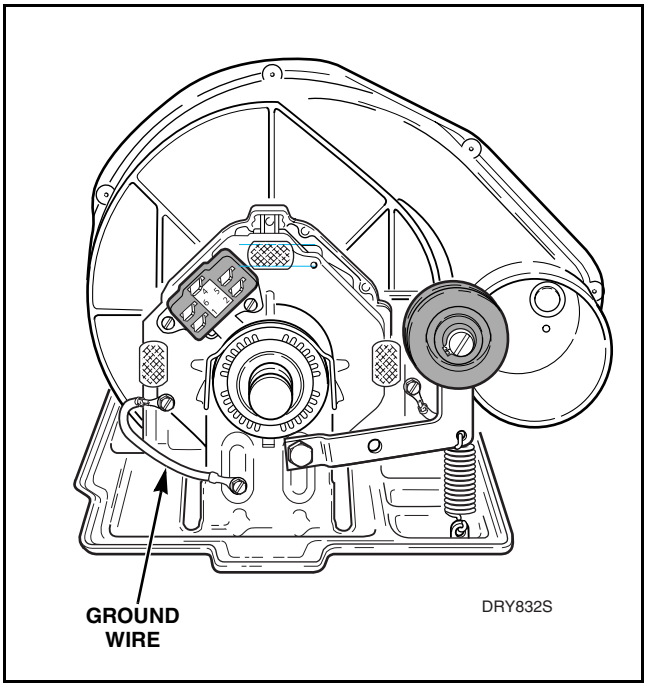

Figure 1

15. MOTOR MOUNTING BRACKET TO BLOWER HOUSING COVER PLATE (Gas and Electric Models)
Figure 2

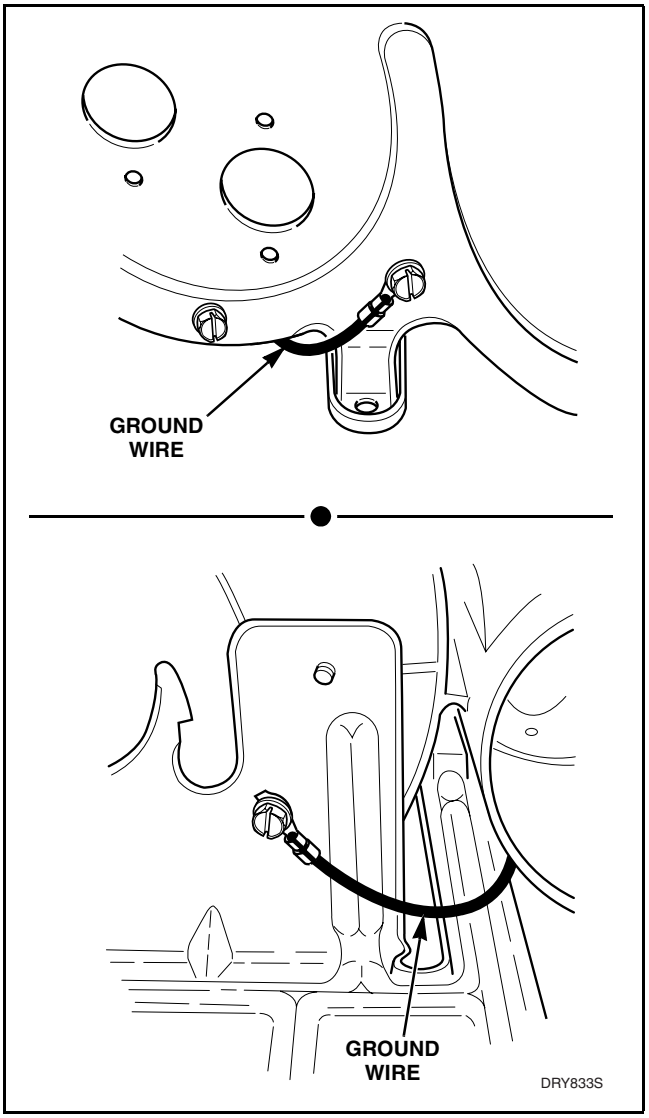

Figure 2

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

16. NEUTRAL AT TERMINAL BLOCK TO TERMINAL BLOCK BRACKET (Electric Models Only)
Figure 3

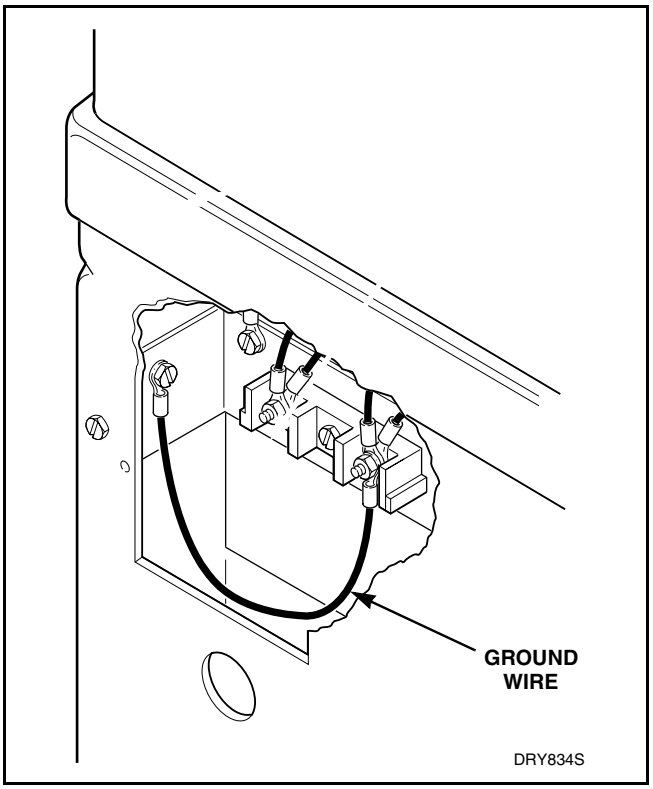

Figure 3

17. TERMINAL BLOCK BRACKET TO CONTROL PANEL TO DRYER TOP PANEL (Electric Models Only)
Figure 4

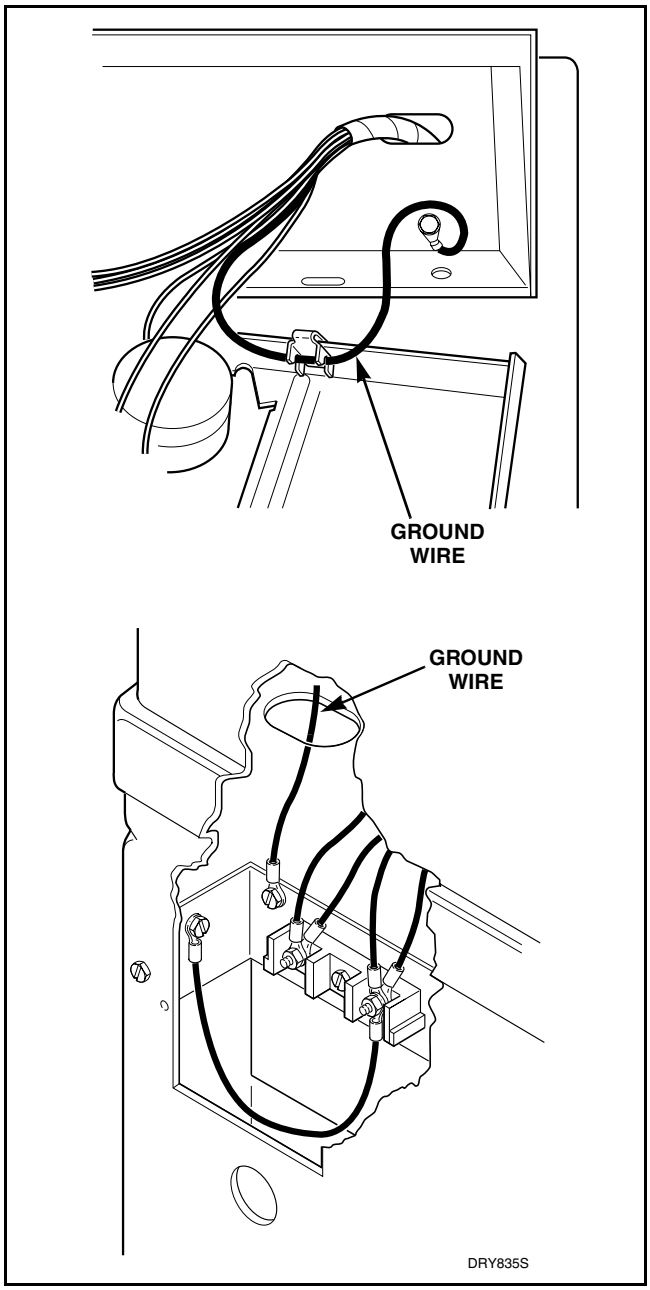

Figure 4

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

18. POWER CORD TO TERMINAL BLOCK BRACKET (Gas Models Only)

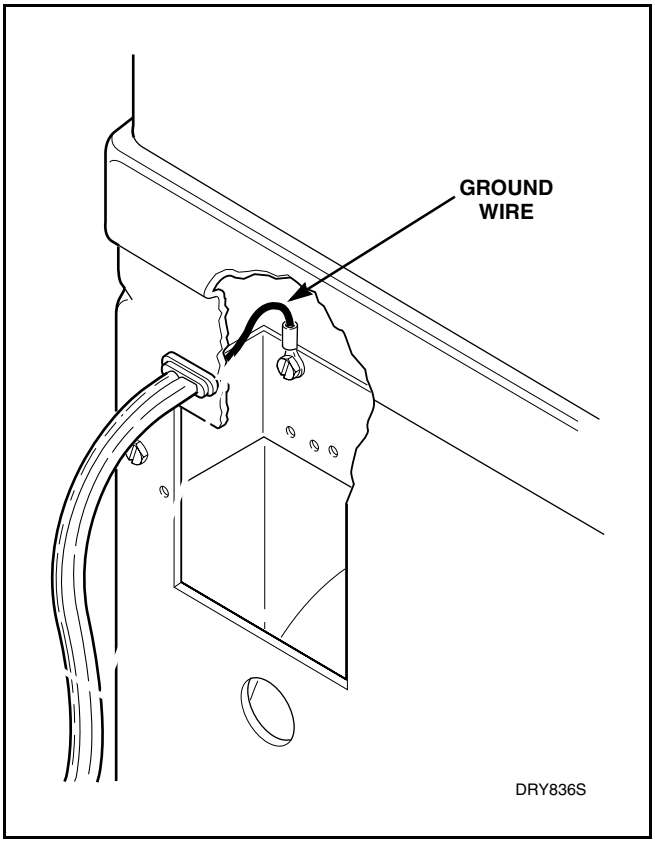

Figure 5

19. TERMINAL BLOCK BRACKET TO CONTROL TOP PANEL (Gas Models Only)

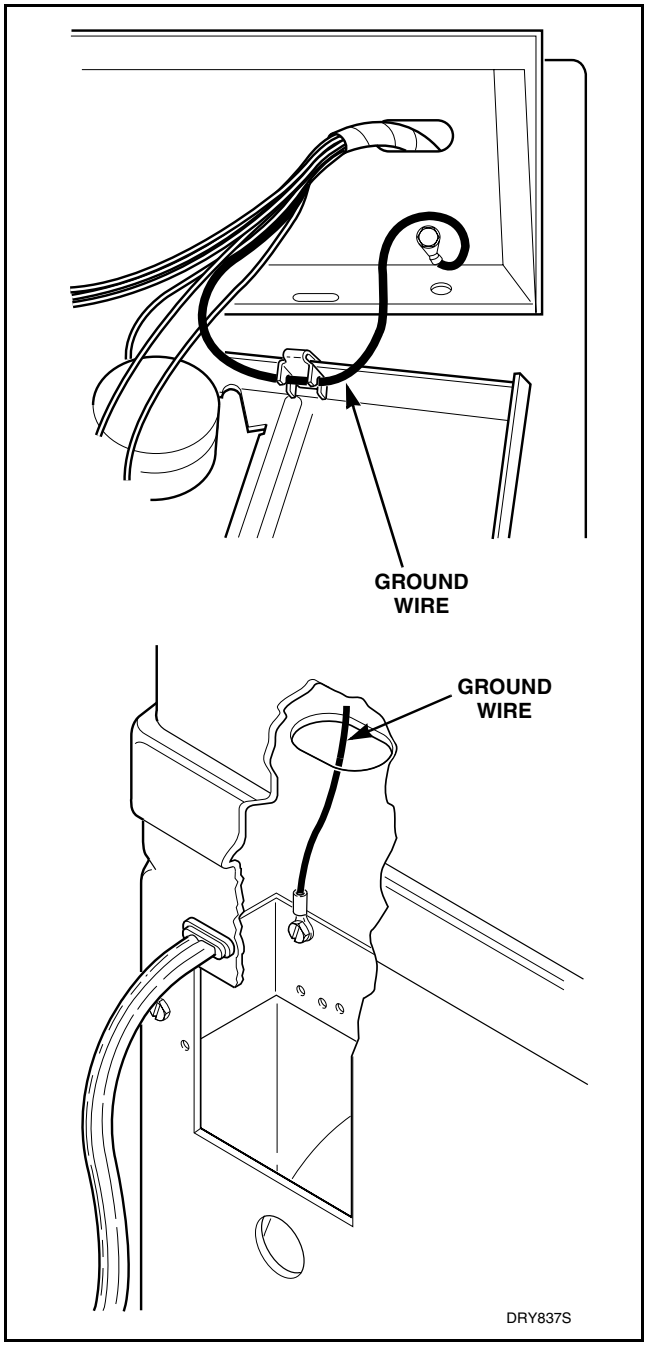

Figure 6

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Section 5
Service Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

IMPORTANT: When reference to direction (right or left) is made in this manual, it is from the operator's position facing the front of the dryer.

20. TIMER — ALL MODELS

Refer to *Figures 8*, *9* or *10* for timer removal.

NOTE: When timer knob is installed, adjust indicator. Refer to *Paragraph 67*.

To Test Timer Contact Points

Refer to *Figure 7*

1. All models: Remove panel screws and lift assembly off panel support. Refer to *Figures 8*, *9* or *10*.
2. Disconnect wires from timer.

NOTE: Refer to appropriate wiring diagram when rewiring timer.

3. Set meter to read Ohms and put meter probes to terminals:
   a. L1 and M to test Drive Motor circuit.
   b. L2 and H to test Heat circuit
   c. L2 and T to test Timer Motor circuit.
   d. B and P to test Buzzer circuit.

NOTE: 52594 Timer ONLY
L1 to H to test for Heat circuit
L1 to M to test for Motor and Timer Motor circuit.

4. Starting with timer knob indicator in OFF position at top of timer, slowly turn timer knob clockwise until indicator is again pointing toward OFF position at top of timer. Meter should register "zero" reading when circuit being tested is completed by timer. Refer to appropriate wiring diagram for Timer Cycle Chart showing when circuit is made.

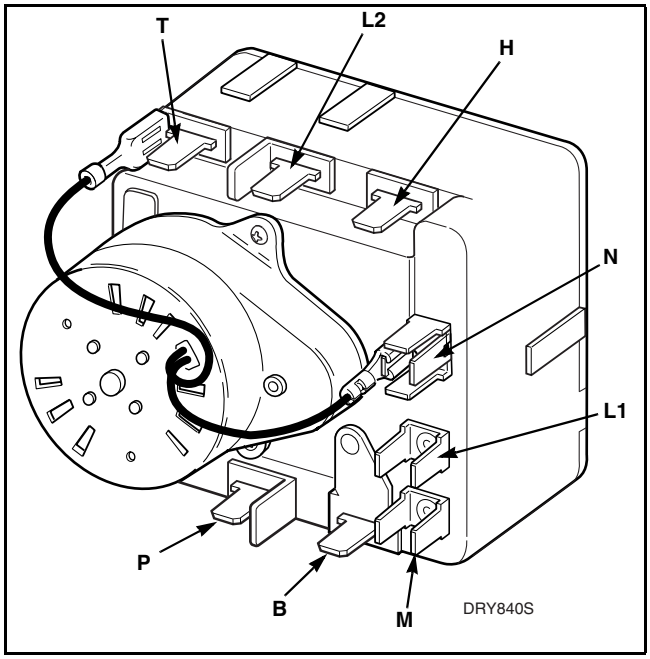

Figure 7

21. TEMPERATURE SELECTOR SWITCH

Refer to *Figures 8*, *9* or *10* for switch removal.

To Test Temperature Selector Switch:

1. Remove control panel. Refer to *Figures 8*, *9* or *10*. Lift assembly off panel support.
2. Disconnect wires from switch.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

3. Set meter to read Ohms and put meter probes on switch terminals by following the appropriate wiring diagram for your model dryer.

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WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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22. SIGNAL CONTROL

Refer to *Figures 8* or *9* for signal control removal.

To Test Signal Control:

1. Remove control panel, and lift assembly off panel support. Refer to *Figures 8* or *9*.
2. Disconnect wires from signal control.

NOTE: Refer to appropriate wiring diagram when rewiring signal control.

3. Set meter to read Ohms and apply probes to terminals of signal control. Meter should read approximately 1000 Ohms at all times.

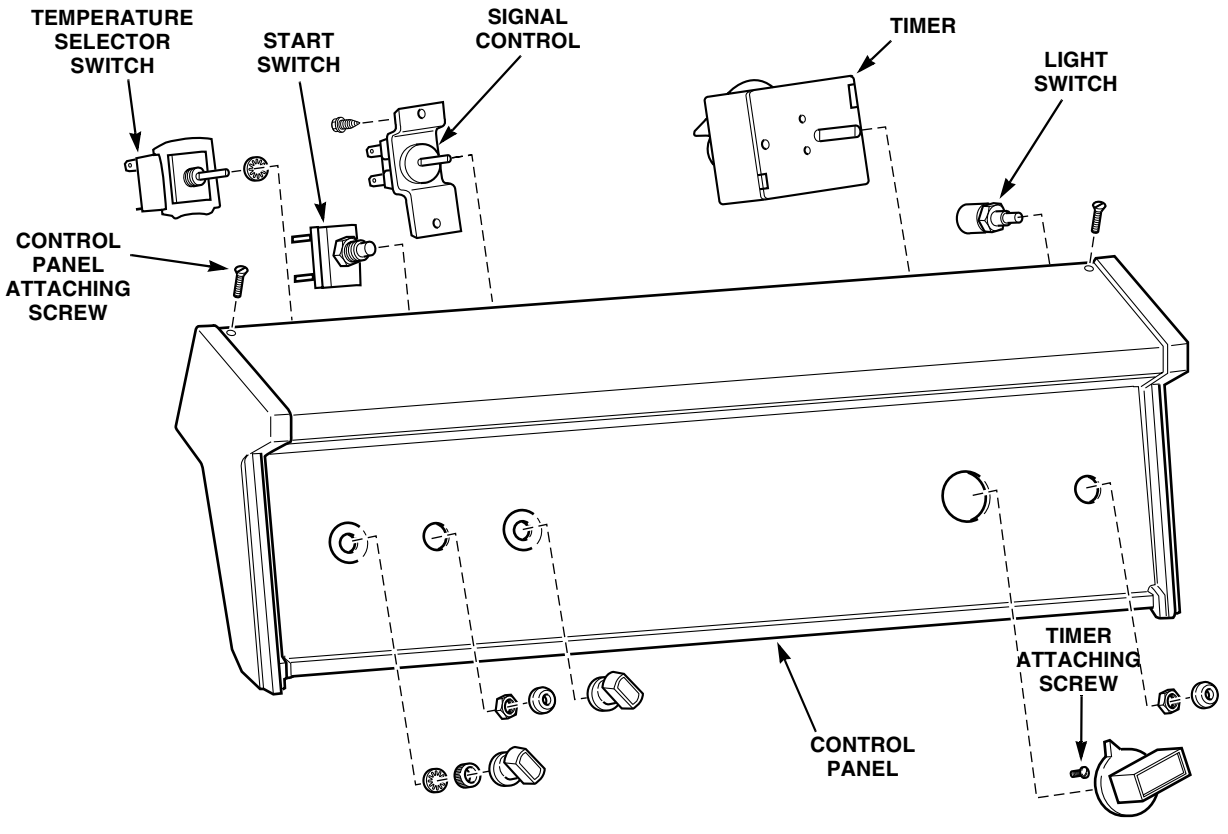

Figure 8

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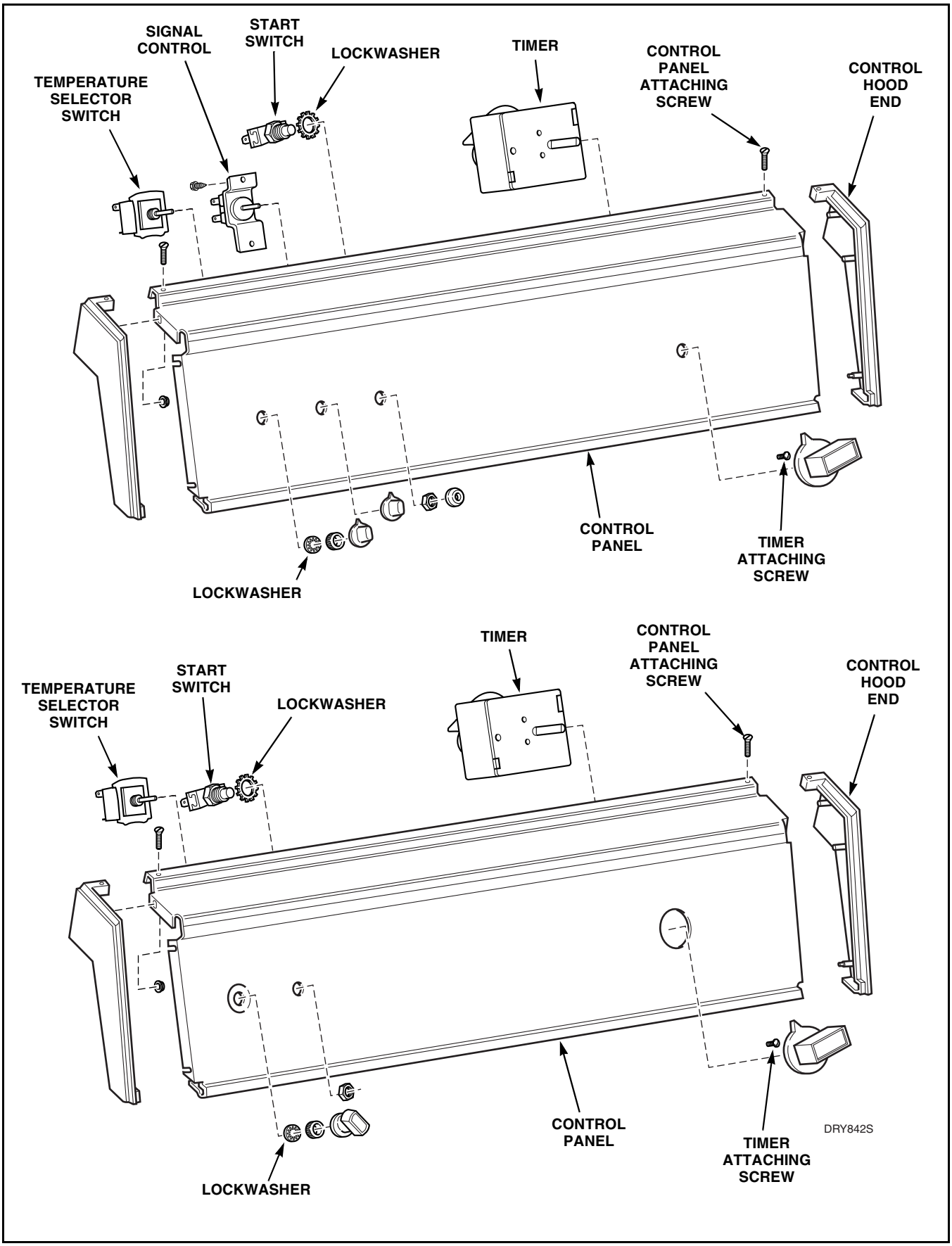

Figure 9

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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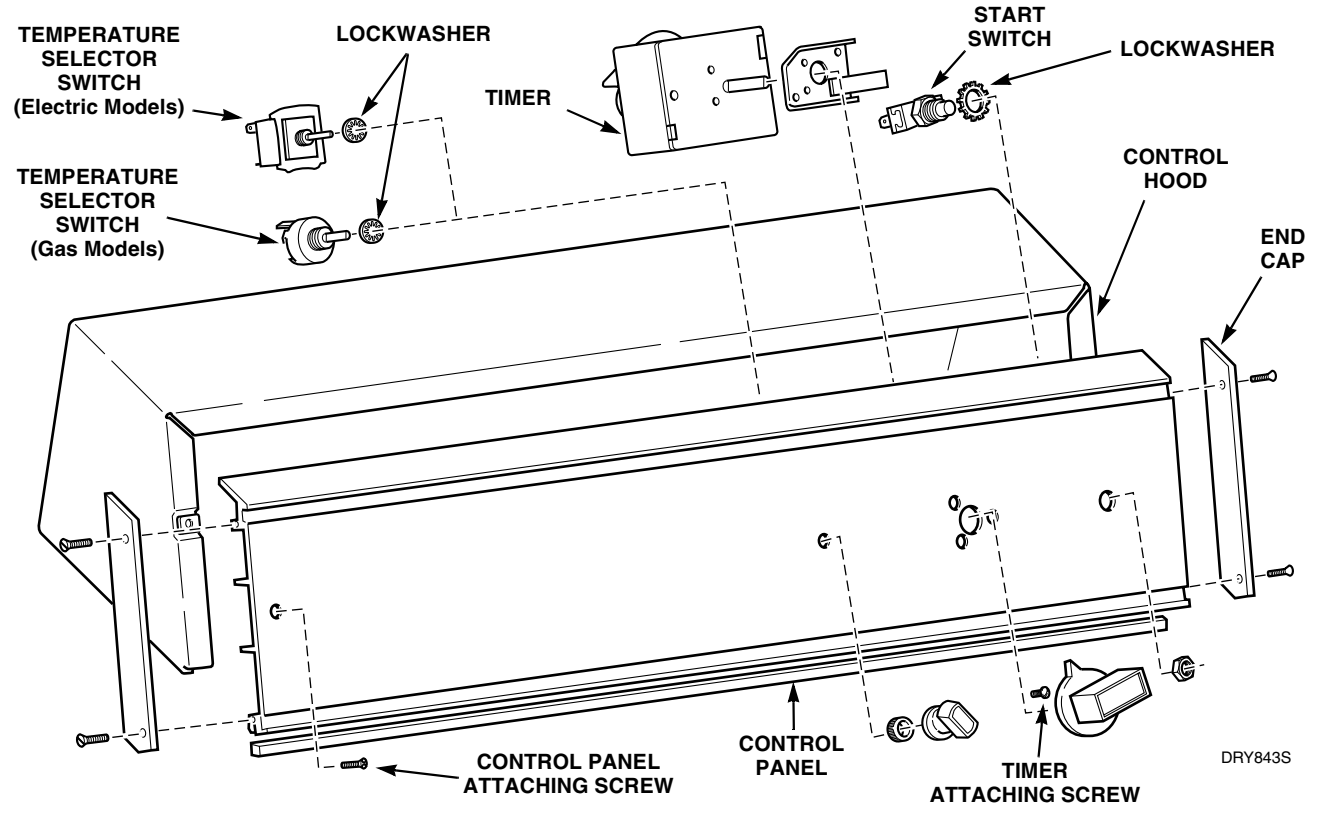

Figure 10

23. LIGHT SWITCH

Refer to *Figure 8* switch removal.

To Test Light Switch:

1. Remove control panel, and lift assembly off panel support. Refer to *Figure 8*.
2. Disconnect all wires from light switch.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

3. Set meter to read Ohms and put probes into terminals for two red wires. Meter should read "infinite."
4. Press light switch and meter should give "zero" reading.
5. Insert probes of meter into terminals for black wire and yellow/black wire.
6. Meter may read EITHER "infinite" or "zero." Press light switch and meter reading should register opposite from what it was when probes were first inserted. Meter reading should reverse each time light switch is pressed.

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WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

24. START SWITCH — ALL MODELS

a. Refer to *Figures 8*, *9* or *10* for switch removal.

To Test Push-To-Start Switch

1. Remove control panel screws and lift assembly off panel support. Refer to *Figures 8*, *9* or *10*.
2. Set Volt-Ohm meter on Ohms scale and "zero" at appropriate scale.
3. Unplug dryer from electrical supply and disconnect wires from switch terminals.
4. Place meter probes on switch terminals. You should see an "infinite" reading on the meter.
5. With probes attached to switch, press the Push-to-Start switch button. You should read "0" (zero) Ohms.

25. FLUORESCENT TUBE AND TUBE HOLDERS

Refer to *Figure 11* for removal.

26. BALLAST

Refer to *Figure 11* for ballast removal.

To Test Ballast:

1. Remove control panel screws and lift assembly off panel support. Refer to *Figure 11*.
2. Disconnect wires from ballast.

NOTE: Refer to appropriate wiring diagram when rewiring ballast.

3. Set meter to read Ohms and apply meter probes to terminals of ballast. Meter should register approximately 20 Ohms.

27. CONTROL PANEL

Type shown in *Figure 8*

a. Remove panel screw and lift assembly off panel support.
b. Remove left and right control hood ends. Refer to *Figure 11*.
c. Lift hood top panel off panel assembly, *Figure 11*.
d. Pull knob off timer shaft.
e. Pull knob off signal control and collar off light switch ferrule nut.

NOTE: When timer knob is installed, adjust indicator. Refer to *Paragraph 67*.

f. Pull knob off temperature selector switch and remove start switch collar.
g. Tilt control panel forward slightly and raise to disengage bottom edge of panel from panel trim, *Figure 11*.

CONTROL PANEL

Type shown in *Figure 9*

a. Remove control panel attaching screws and lift assembly off panel support.
b. Remove left and right control hood ends.
c. Pull knob off timer shaft.

NOTE: When timer knob is installed, adjust indicator. Refer to *Paragraph 67*.

d. Pull knob off signal control, if present.
e. Pull knob off temperature selector switch, if present and remove knurled nut and lockwasher holding switch in control panel.

NOTE: When reinstalling switch, lockwasher must be between knurled nut and control panel for grounding purposes.

f. Remove hex nut holding start switch and lockwasher in control panel.

NOTE: When reinstalling switch, lockwasher must be between switch and control panel for grounding purposes.

g. Remove three screws holding timer in control panel.

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WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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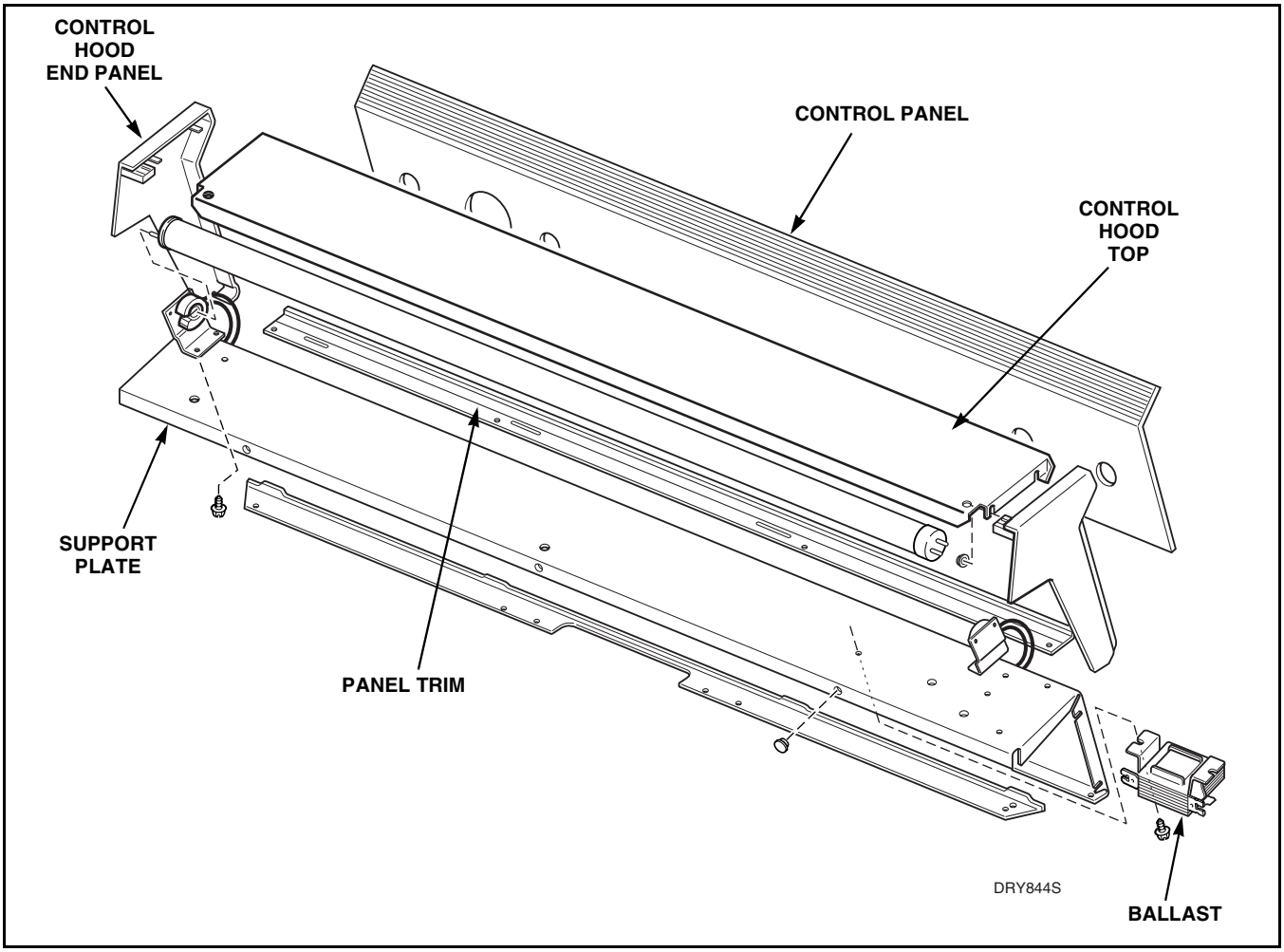

Figure 11

CONTROL PANEL
Type shown in *Figure 10*

a. Remove control panel attaching screws and pull panel away from control hood as far as wires will permit.
b. Pull knob off timer shaft.

NOTE: Models equipped with the adjustable timer knob indicator. Refer to *Paragraph 67*.

c. Remove three screws holding timer to control panel.

NOTE: When reinstalling timer, position spacer between timer and control panel.

d. Pull knob off temperature selector switch.
e. Remove temperature switch knurled nut, and start switch hex nut.
f. Remove left and right end caps.

NOTE: When reinstalling switches, lockwashers must be between switches and control panel for grounding purposes.

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WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

28. BURNER SYSTEM OPERATION

Refer to *Figure 12*

a. **Components**

(1) This burner has four basic components:

(a.) A silicon carbide (glow bar) igniter

(b.) Burner tube

(c.) Sensor

(d.) Two-stage gas valve consisting of a split-coil valve and a secondary coil valve.

(2) The split-coil valve is opened when the dryer thermostat calls for heat, while the secondary valve does not open until the igniter has attained ignition temperature.

b. **Pre-Ignition Circuits**

(a.) When the dryer thermostat calls for heat, circuits are completed through the holding coil, sensor, booster coil and igniter.

(b.) Both coils must be energized to open split-coil valve.

(c.) Once opened, the holding coil can hold the valve open without assistance from the booster coil.

(d.) The current shunted around the secondary coil by the sensor, passes through the igniter causing it to get hot.

c. **Burn Circuit**

(1) In approximately 30 seconds, the igniter attains ignition temperature and the sensor (located on burner housing beside the igniter) contacts open.

(2) A circuit is then completely through the secondary valve coil, opening the valve and allowing gas to flow.

(3) Ignition is made and the heat from the burner flame causes the sensor contacts to remain open.

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WARNING

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- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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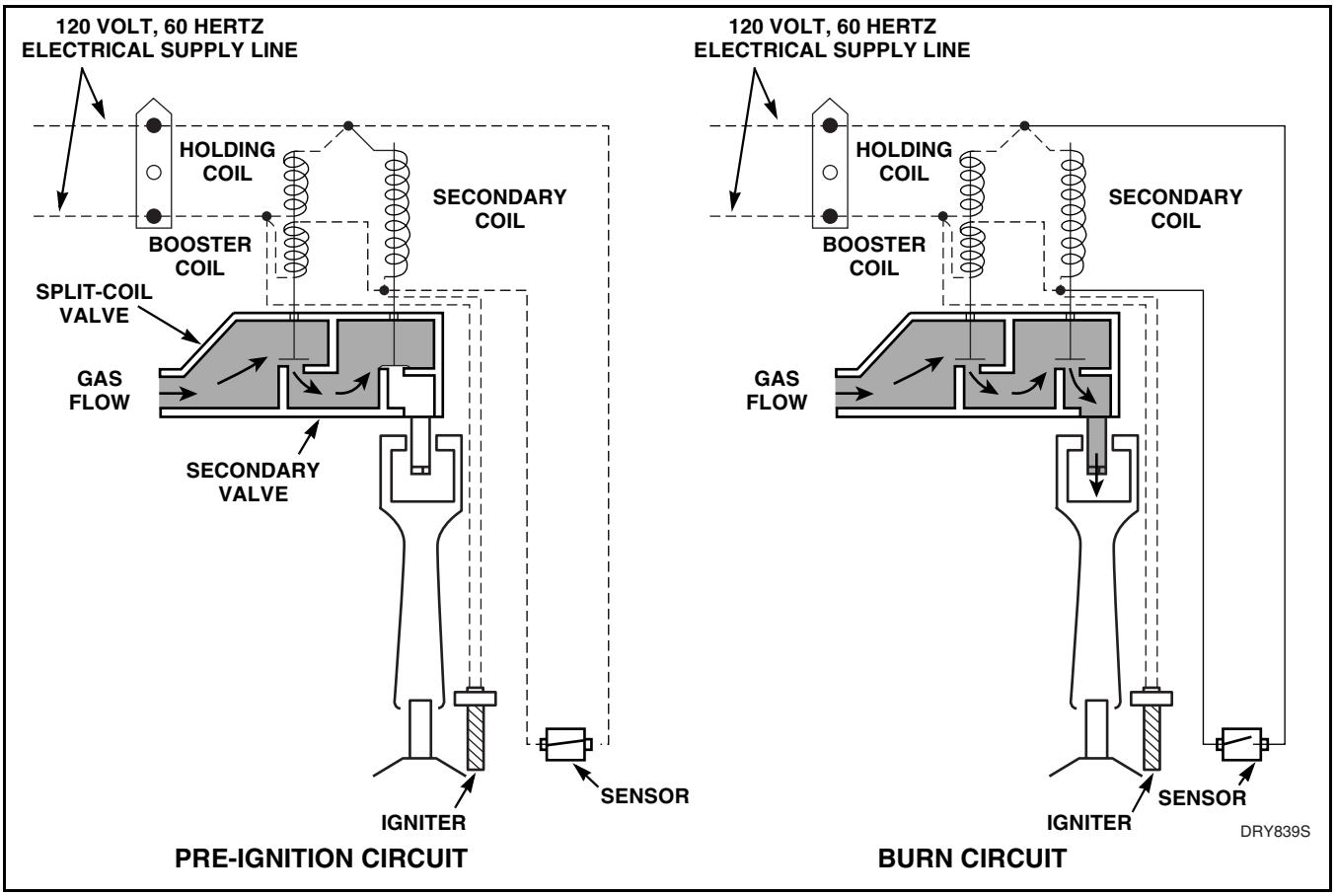

Figure 12

29. IGNITION SYSTEM FEATURES

Refer to *Figure 12*

a. **Momentary Power Interruption**

(1) Upon resumption of power, sensor contacts will still be open, permitting secondary valve to open.

(2) However, with the secondary coil in the circuit, the booster coil cannot draw enough current to open the split-coil valve.

(3) When sensor contacts do reclose, the secondary valve will close, and the burner system will be in the normal pre-ignition circuit.

b. **Flame Failure**

(1) In case of flame failure, the sensor contacts will reclose in about 45 seconds.

(2) This will close the secondary valve and the burner system will be in the normal pre-ignition circuit.

c. **Ignition Failure**

(1) If flame is not established as sensor contacts open, secondary valve will remain open until sensor contacts reclose.

(2) Sensor will continue to recycle the igniter and secondary valve (about once per minute) until ignition is made or dryer is turned off.

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WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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30. BURNER SYSTEM COMPONENTS – Gas Models

a. Complete gas valve assembly.

(1) Remove access door by applying thumb pressure to right edge of door. When door opens, move door to the left to disengage from door supports. Refer to *Figure 13*.

(2) Close gas shutoff valve and disconnect wires from sensor and at disconnect blocks. Refer to *Figure 14*.

(3) Loosen union nut between gas shutoff valve and nipple connector to gas valve. Unthread nut from nipple completely. Refer to *Figure 14*.

(4) Remove three hex head screws holding valve and mounting bracket to base. Refer to *Figure 14*.

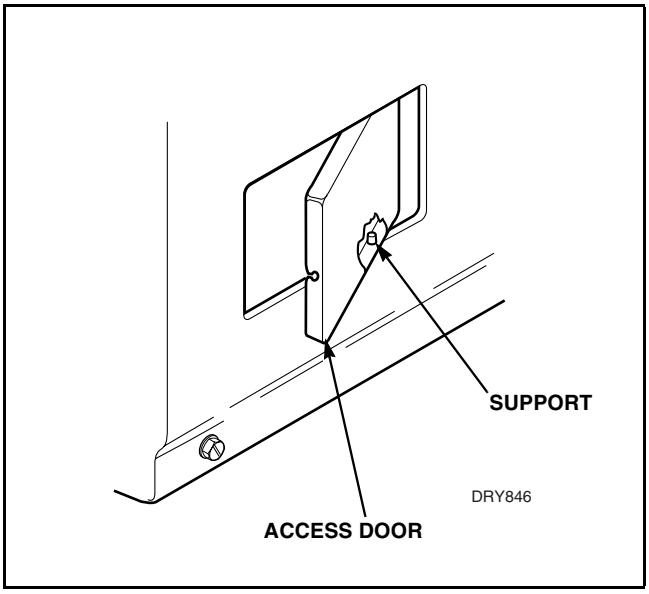

Figure 13

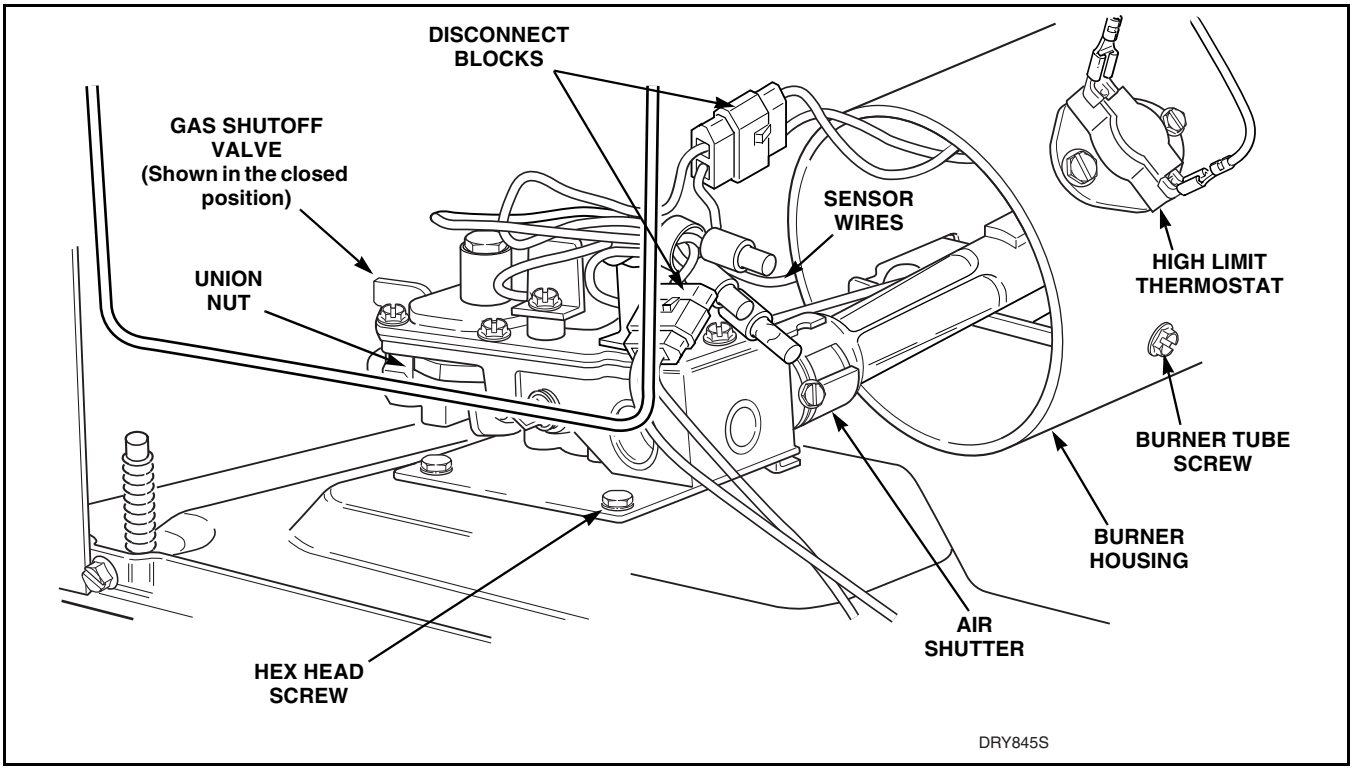

Figure 14

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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(5) Lift gas valve and mounting bracket from base and carefully remove through access door opening.

NOTE: The holding coil, booster coil and secondary coil can be replaced individually or in a kit. Refer to the parts section of this manual for the correct part numbers.

To Test Gas Valve Coils:

1. Disconnect valve wire harness at molex plug, igniter wires at disconnect block and sensor wires from sensor control.
2. Set test meter to read OHMS and put meter probes to terminals as follows: (Refer to *Figure 15*.)
   a. Location “A” (black and blue, 115 Volt supply wires). If reading is 567 to 697 Ohms, all of the coils are okay. If reading is 1100 to 1430 Ohms, then move meter probes to location “B”.
   b. Location “B” (blue and white wires to sensor). If reading is 1640 to 2010 Ohms, the secondary coil is open and coil must be replaced. If reading is 630 to 7770 Ohms, then move meter probes to location “C”.
   c. Location “C” (black and red wires to igniter). If reading is 540 to 660 ohms, holding coil is open and coil must be replaced. If reading 1730 to 2120 Ohms, booster coil is open and must be replaced.

NOTE: Test procedure can be performed on workbench if gas valve, igniter, burner tube and burner housing are removed from dryer.

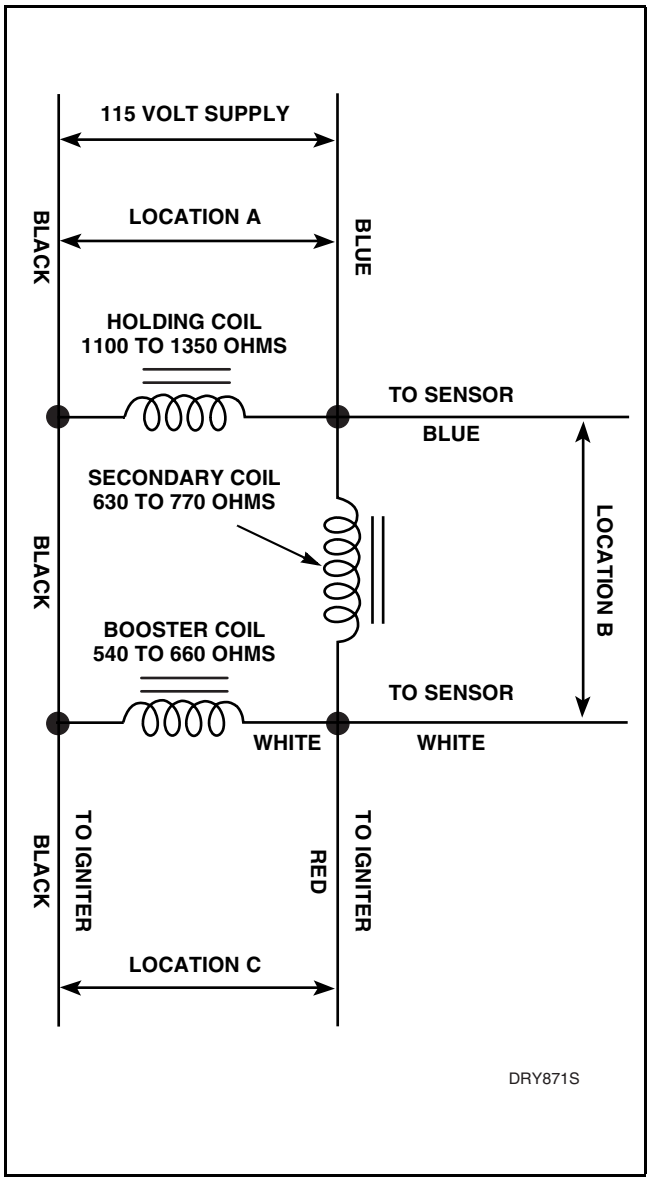

Figure 15

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WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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b. **Burner tube and igniter**

NOTE: Burner tube and igniter can be removed without removing gas valve and bracket.

(1) Remove one screw from right side of burner housing holding burner tube in place. Refer to *Figure 14*.
(2) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 16*.

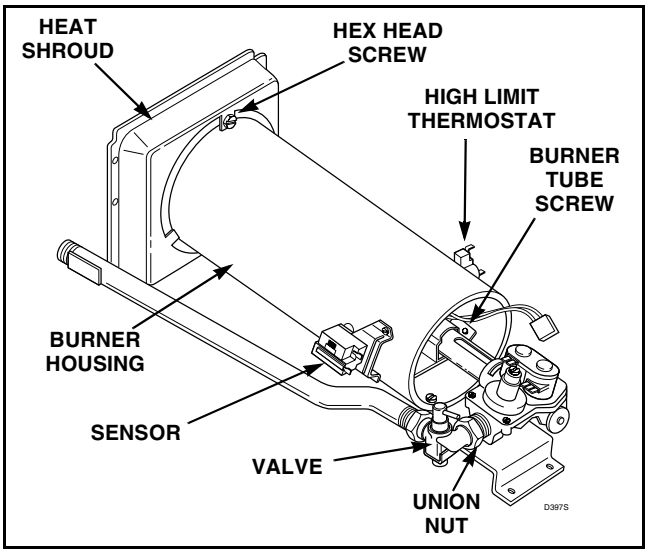

Figure 16

(3) Carefully rotate burner tube and igniter counterclockwise so tab is at 8 o'clock position.
(4) Move air shutter end of burner tube slightly to right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

CAUTION

Use care in removal so as not to damage or break igniter as it is very fragile.

WARNING

Handle igniter by grasping white ceramic portions only. DO NOT handle silicon carbide portion of igniter with hands or allow any oil, grease or other foreign material to contaminate it. Oil, grease and other impurities or hairline cracks will cause igniter to burn out.

c. **Igniter.** Refer to *Figure 17*
(1) Remove burner tube and igniter, paragraph 30, section b, steps 1 through 4.
(2) Carefully remove igniter by spreading mounting clips with a Tru-Arc pliers.

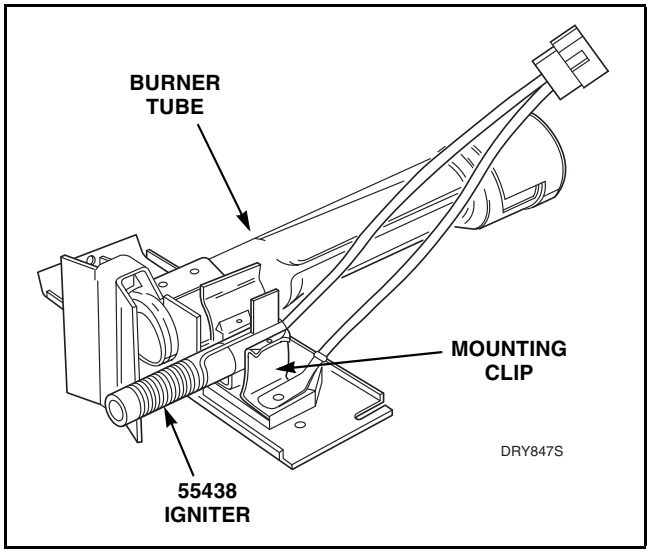

Figure 17

CAUTION

Use care in removal so as not to damage or break igniter as it is very fragile.

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- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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WARNING

Handle igniter by grasping white ceramic portions only. DO NOT handle silicon carbide portion of igniter with hands or allow any oil, grease or other foreign material to contaminate it. Oil, grease and other impurities or hairline cracks will cause igniter to burn out.

To Test Igniter:

1. Remove access door by applying thumb pressure to right edge of door. When door opens, move door to the left to disengage from door supports. Refer to *Figure 13*.
2. Disconnect igniter wires at molex plug.
3. Set test meter to read Ohms and put meter probes on terminals of igniter wires.
4. Meter should register an Ohm reading of at least 40 Ohms at the minimum. If meter does not register any Ohms or less than 40 Ohms, replace the igniter.

IMPORTANT: Always examine all wires, terminals and connectors to be sure wiring is proper before replacing any components.

NOTE: Test procedure can be performed on workbench if gas valve, igniter, burner tube and burner housing are removed from dryer.

d. **Sensor**. Refer to *Figure 16*
   (1) Remove access door by applying thumb pressure to right edge of door. When door opens, move door to the left to disengage from door supports. Refer to *Figure 13*.
   (2) Remove wires from sensor terminals.
   (3) Remove screw holding sensor to burner housing.

e. High Limit Thermostat. Refer to *Figure 16*.
   (1) Remove access door by applying thumb pressure to right edge of door. When door opens, move door to the left to disengage from door supports. Refer to *Figure 13*.
   (2) Remove wires from thermostat.
   (3) Remove two hex head screws holding thermostat to burner housing and remove thermostat.

To Test Sensor:

1. Remove access door by applying thumb pressure to right edge of door. When door opens, move door to the left to disengage from door supports. Refer to *Figure 13*.
2. Remove wires from sensor terminals. Refer to *Figure 16*.
3. Set test meter to read Ohms and put meter probes on sensor terminals. Meter should read “zero” Ohms. If meter registers an Ohm reading of any amount, replace sensor.

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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To Test Electrical Circuit to Ignition System:

1. Remove access door and close gas shut-off valve.
2. Disconnect valve wire harness from dryer harness at molex plug.
3. Plug dryer power cord into wall receptacle, set FABRIC switch and timer into positions calling for heat and start dryer.
4. Set test meter to read AC voltage and apply meter probes into PINK and WHITE wire terminals on dryer harness side of molex plug. Meter should register line voltage in all FABRIC settings, except FLUFF which should read "zero" VAC.
5. If meter does not register as explained in step "4", check motor switch and timer motor circuit.

31. FRONT PANEL AND PANEL SEAL

Refer to *Figure 21*

a. Remove two screws from bottom edge of front panel.
b. Swing bottom of panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
c. Disconnect wires from door switch (refer to appropriate wiring diagram when rewiring switch).
d. Remove front panel seal from flange around inside of door opening.

NOTE: Be sure seal is positioned properly when replacing.

32. BURNER HOUSING

a. Remove front panel. Refer to *Paragraph 31*, steps "a" through "c".
b. Close gas shutoff valve and disconnect wires from sensor and disconnect blocks. Refer to *Figure 14*.
c. Loosen union nut between gas shutoff valve and nipple connector to gas valve. Unthread nut from nipple complete. Refer to *Figure 14*.
d. Remove screws holding valve and bracket to base. Refer to *Figure 14*.
e. Lift gas valve and mounting bracket from base and carefully remove out through front of dryer.
f. Remove screw from right side of burner housing holding burner tube in place. Refer to *Figure 14*.
g. Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 16*.
h. Carefully rotate burner tube and igniter counterclockwise to tab is at 8 o'clock position.
i. Move air shutter end of burner tube slightly to right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

CAUTION

Use care in removal so as not to damage or break igniter as it is very fragile.

j. Remove hex head screw holding burner housing to heat shroud. Refer to *Figure 16*.
k. Remove hex head screw holding front of burner housing to dryer base and remove housing out through front of dryer.

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- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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33. HEAT SHROUD

a. Remove front panel. Refer to *Paragraph 31*, steps "a' through "c".
b. Remove burner housing. Refer to *Paragraph 32*, steps "b" through "k".
c. Remove four hex head screws holding shroud to heater box and remove shroud out through front of dryer. Refer to *Figure 16*.

34. TERMINAL BLOCK OR POWER CORD.

Terminal Block - Electric Models

Refer to *Figure 18*

a. Remove access plate on rear of cabinet.
b. Remove all wires from terminal block. (Refer to appropriate wiring diagram when rewiring terminal block.)
c. Remove screws holding terminals block to bracket.

NOTE: Do not let terminal block insulation drop when removing the block. Insulation must be in place when reinstalling block.

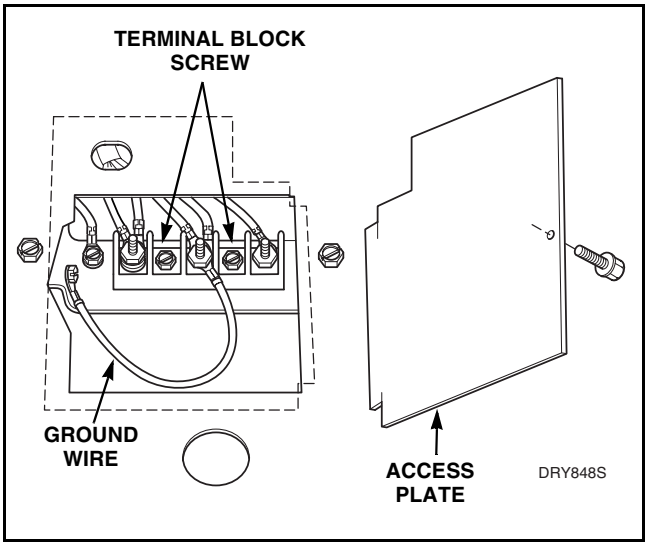

Figure 18

Power Cord - Gas Models

d. Remove access plate on rear of cabinet.
e. Remove strain relief.
f. Remove screw holding power cord ground wire to terminal block bracket.

NOTE: Reconnect ground wire into same hole in bracket when reinstalling power cord.

g. Disconnect molex plug and remove strain relief and power cord from rear of dryer cabinet.

35. LOADING DOOR

a. Remove four Phillips head screws holding hinges to door. Refer to *Figure 19*.

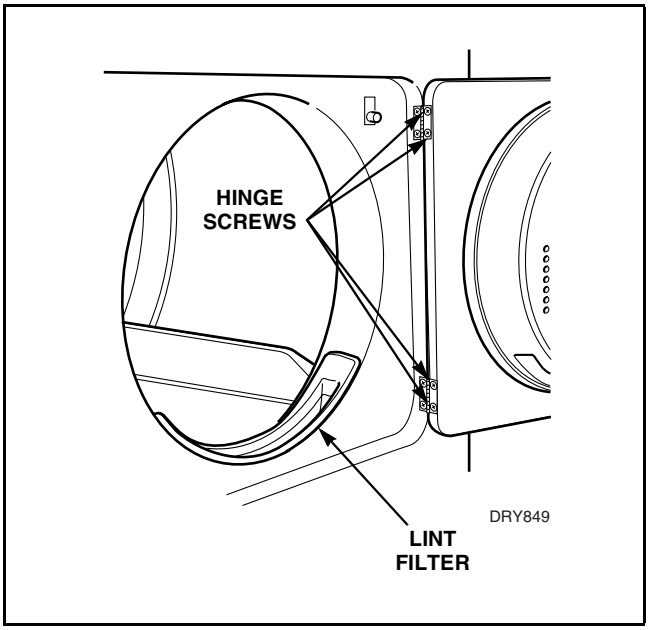

Figure 19

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WARNING

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- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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36. INNER AND OUTER DOOR PANELS AND DOOR HANDLE

Refer to *Figure 20*

a. Remove loading door. Refer to *Paragraph 27*.

b. Remove two hex head screws holding handle to door.

37. DOOR STRIKER

Refer to *Figure 20*

a. Remove two hex head screws holding handle to door.

b. Spread door panels just far enough to depress tabs on top and bottom of striker and push out of inner panel.

38. DOOR SEAL

Refer to *Figure 20*

a. Open loading door and remove seal from inner door panel.

NOTE: When replacing seal, be sure seal is not stretched or distorted. Use a heat resistant adhesive (such as Krazy Glue®) to adhere door seal to inner door panel.

39. LINT FILTER

Refer to *Figure 19*

a. Open loading door and lift filter out of air duct.

40. STRIKER CATCH

a. Remove front panel. Refer to *Paragraph 31*, steps “a” and “c”.

b. Depress tabs on top and bottom of catch and push out of front panel. Refer to *Figure 21*.

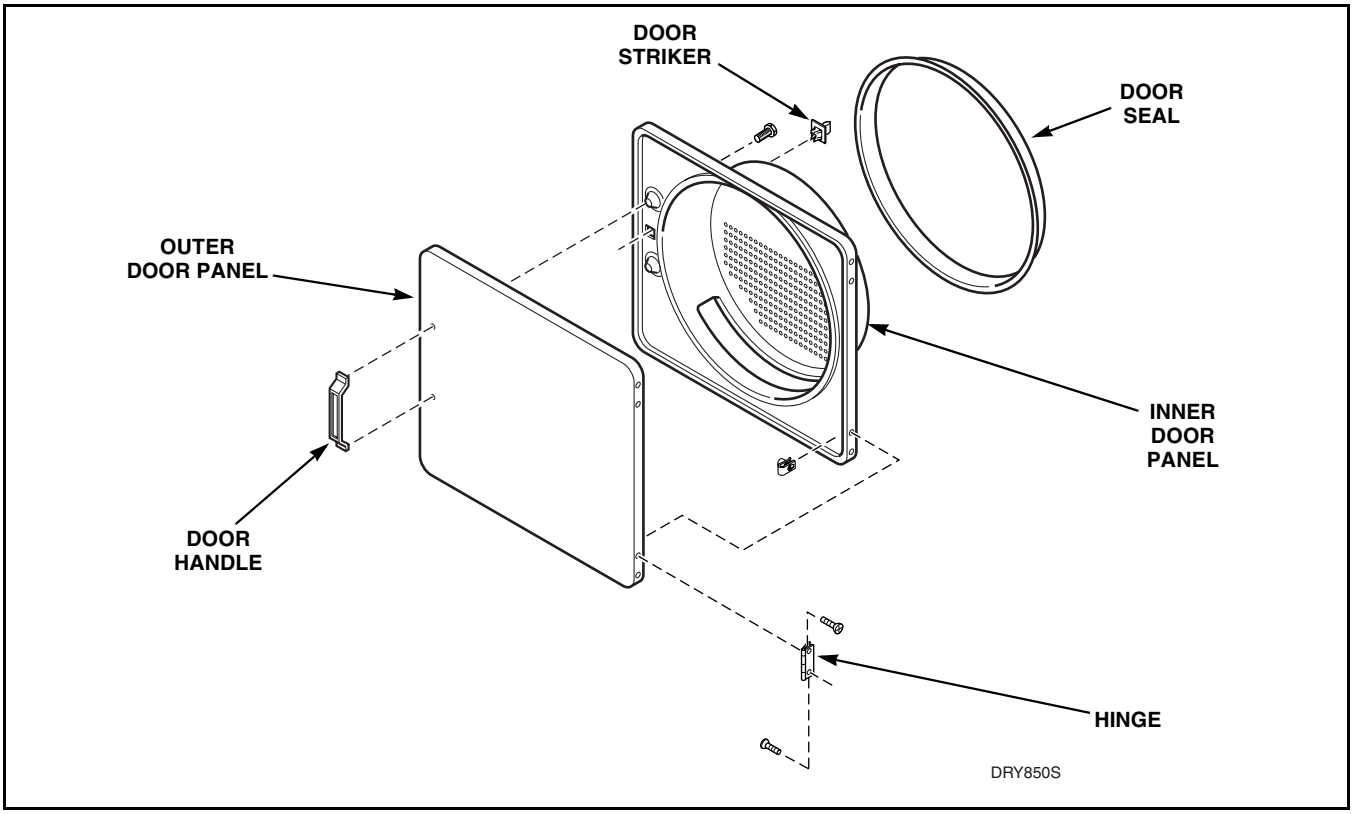

Figure 20

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

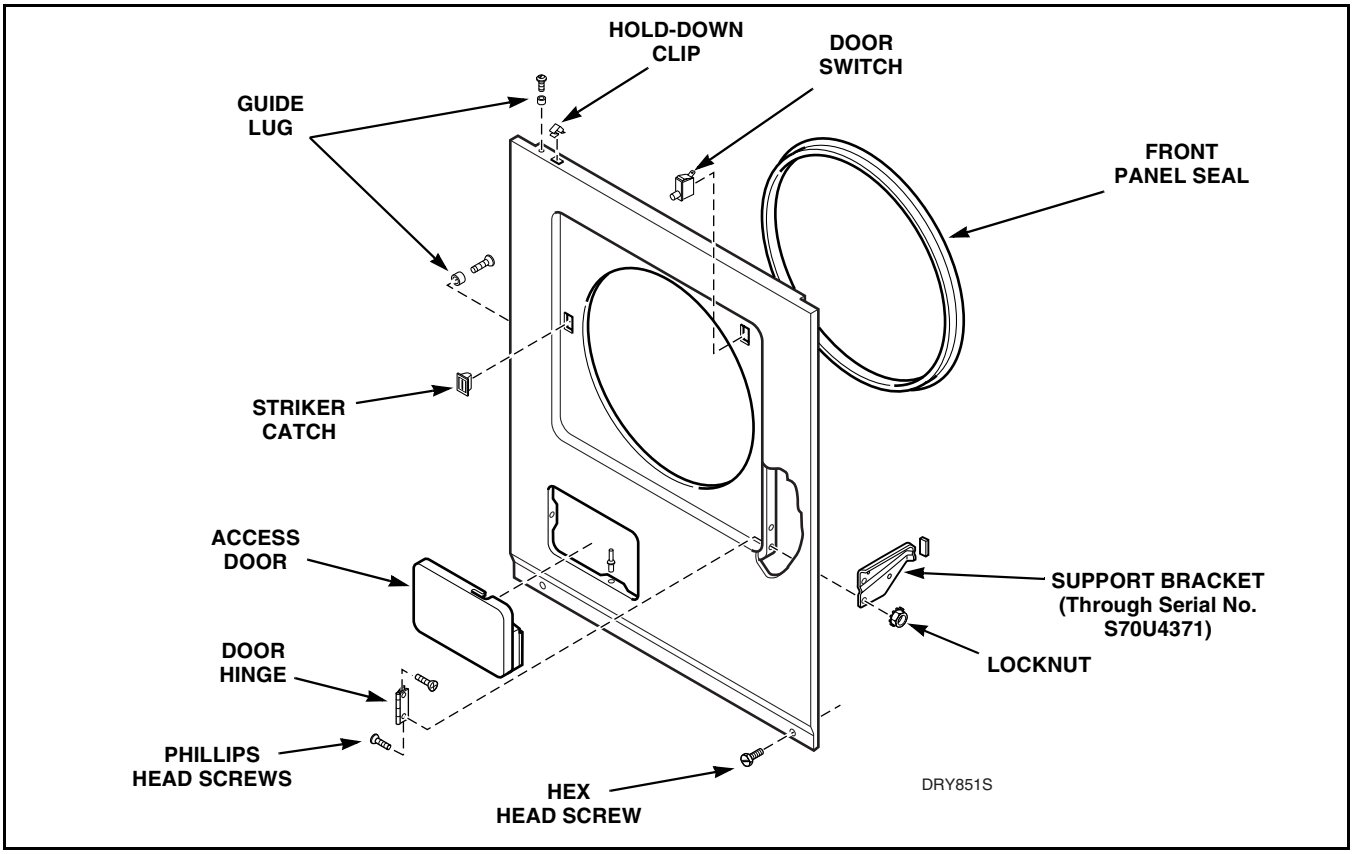

Figure 21

41. DOOR HINGE AND SUPPORT BRACKET

a. Open loading door and remove four screws holding door assembly to hinges. Refer to *Figure 19*.

b. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.

c. Remove four Phillips head screws and locknuts holding hinges to front panel. Refer to *Figure 21*.

NOTE: Through Serial No. S70U4371, support bracket is removed with lower hinge. Support bracket must be installed when reassembling.

42. HOLD-DOWN CLIPS AND GUIDE LUGS

Refer to *Figure 21*

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.

b. Compress hold-down clips and remove from slot in top flange of front panel.

c. Remove four screws holding four guide lugs to front panel.

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WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

43. DOOR SWITCH

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Depress tabs on top and bottom of switch and push out of front panel. Refer to *Figure 22*. (Refer to appropriate wiring diagram when rewiring switch.)

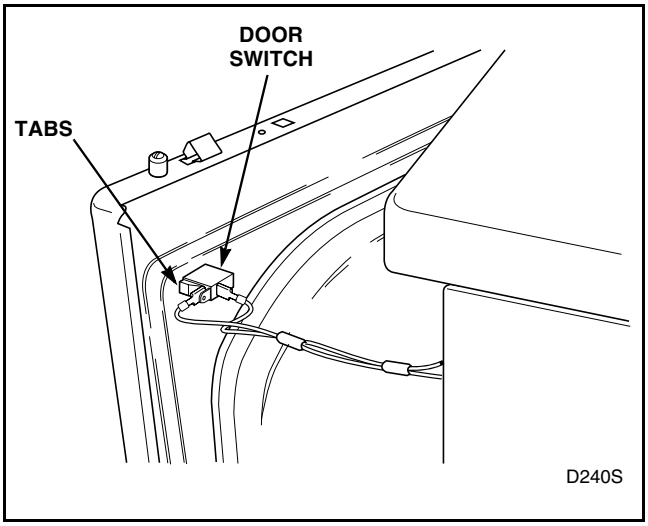

Figure 22

To Test Door Switch:

1. Disconnect wires from door switch.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

2. Set meter to read Ohms and apply meter probes on switch terminals 1 and 3 with door closed. You should get “zero” reading.
3. Apply probes to terminals 1 and 2 with door closed. The meter should read “infinite.”
4. Open door. Meter should read “infinite” between 1 and 3 and “zero” between 1 and 2.

44. CYLINDER LIGHT

a. Open loading door and remove bulb through top opening in the front bulkhead by pushing up and turning bulb to the left. Refer to *Figure 23*.

45. CYLINDER LIGHT RECEPTACLE

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Disconnect wires at connectors.
c. Remove two Phillips head screws and lockwashers holding receptacle to front bulkhead. Refer to *Figure 23*.

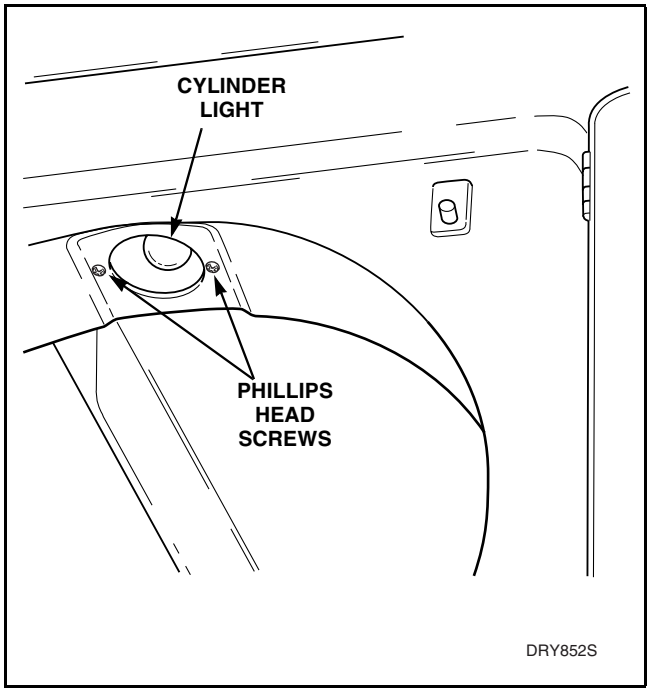

Figure 23

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

46. HIGH OR LOW THERMOSTATS

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.

b. Refer to *Figure 24* for thermostat removal.

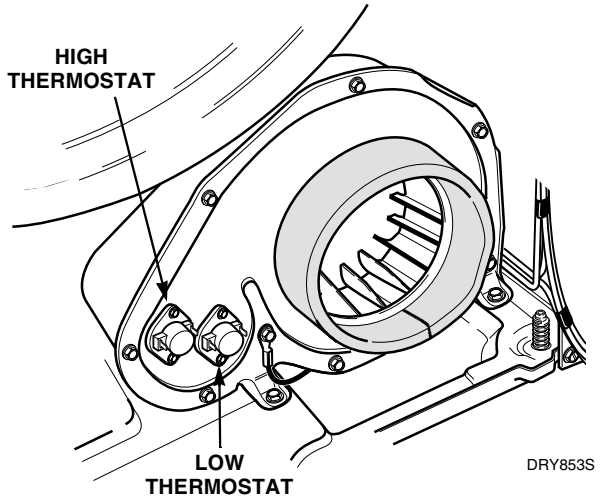

Figure 24

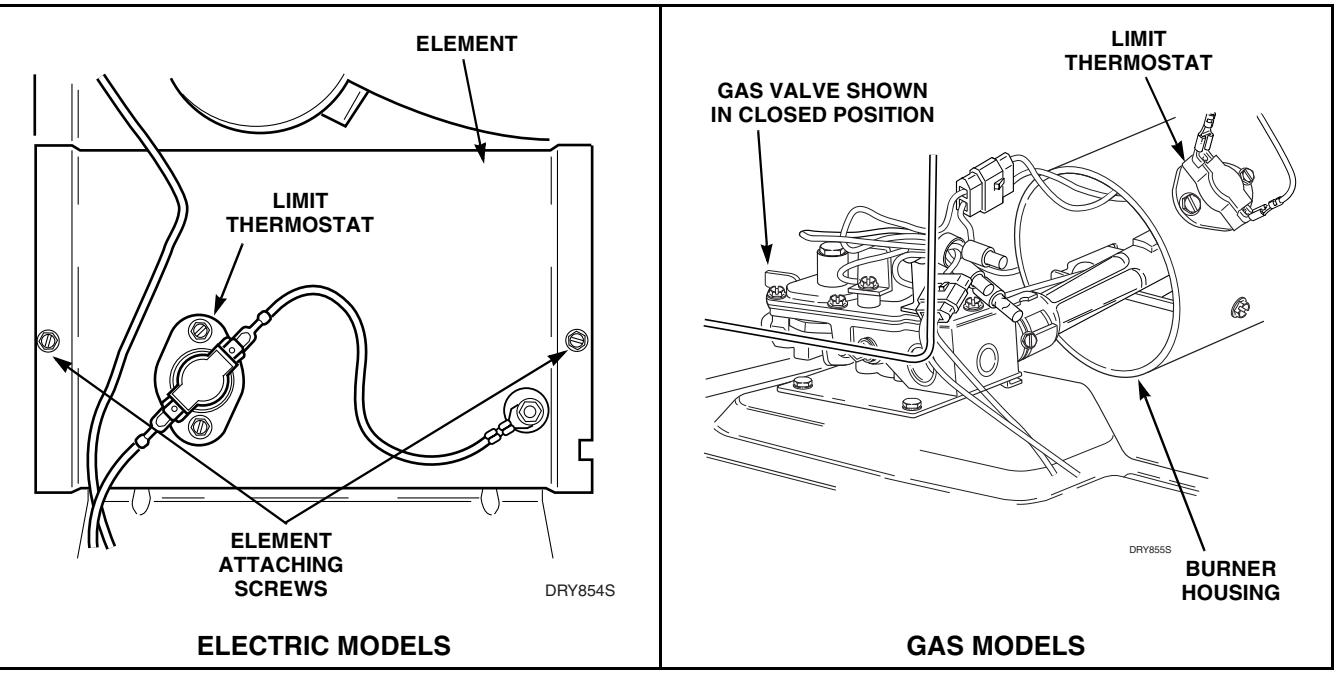

Figure 25

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

47. LIMIT THERMOSTAT

ELECTRIC MODELS

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Refer to *Figure 25* for thermostat removal.

GAS MODELS

a. Remove access door by applying thumb pressure to right edge of door. When door opens, move door to the left to disengage from door support.
b. Refer to *Figure 25* for thermostat removal.

48. HEATING ELEMENT

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove two hex head screws holding element and plate to heater box and pull element down and away from heater box. Refer to *Figure 25*.
c. Disconnect wires from element terminals and remove high limit thermostat.

NOTE: When reassembling, be sure all wire connections are tight on element terminals and high limit thermostat.

49. CABINET TOP

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove control panel. Refer to *Paragraph 27* and *Figures 8*, *9* or *10*.
c. Disconnect wire harness from all components and ground wire in control hood. Push harness through opening in cabinet top. (Replace control panel or set aside to prevent damage.)

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

d. Remove two cabinet hold-down screws. Refer to *Figure 26*.
e. Lift front of cabinet top and disengage from hinges on rear of cabinet. Refer to *Figure 27*.

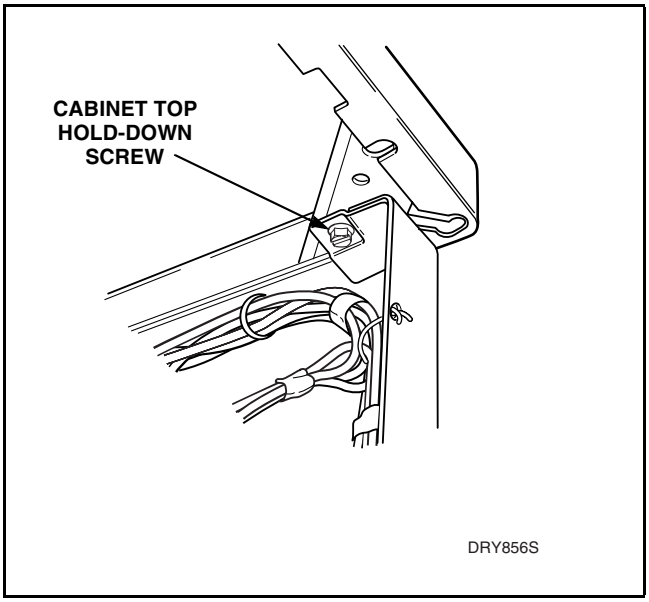

Figure 26

f. Remove brace from underside of top by swinging one end to front or rear.
g. Remove control hood and panel support if necessary when replacing cabinet top.

NOTE: Cabinet top may be raised and hinged on the rear hold-down brackets, or supported against wall behind dryer when servicing.

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WARNING

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- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

50. CONTROL HOOD

a. Remove control panel and support bracket. Refer to *Paragraph 27* and *Figures 8*, *9* or *10*. Disconnect all wires. (Refer to appropriate wiring diagram when reconnected.)
b. Remove or raise cabinet top. Refer to *Paragraph 49*.
c. Support hood and remove 6 screws holding control hood to cabinet top. Refer to *Figure 27*.

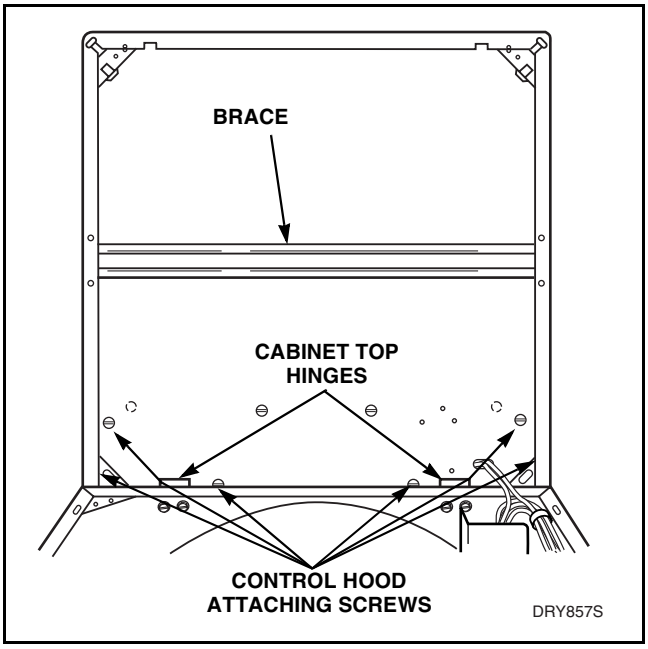

Figure 27

51. FRONT AIR DUCT

a. Remove front panel. Refer to *Paragraph 31*, steps “a’ through “c”.
b. Remove lint filter. Refer to *Figure 19*.
c. Remove hex head screws holding duct to front bulkhead and lift off. Refer to *Figure 28*.

NOTE: When reassembling, be sure felt seal on exhaust fan cover makes air tight seal on flange of duct. Refer to *Figure 29*.

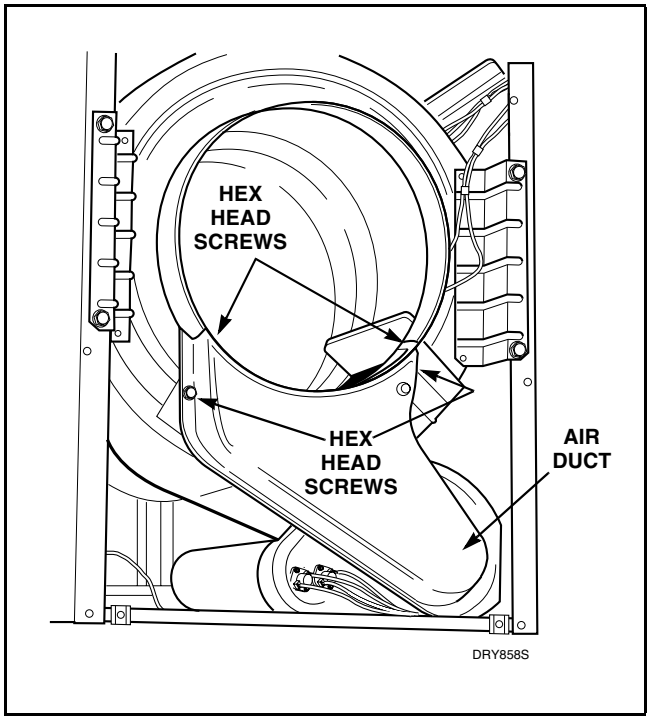

Figure 28

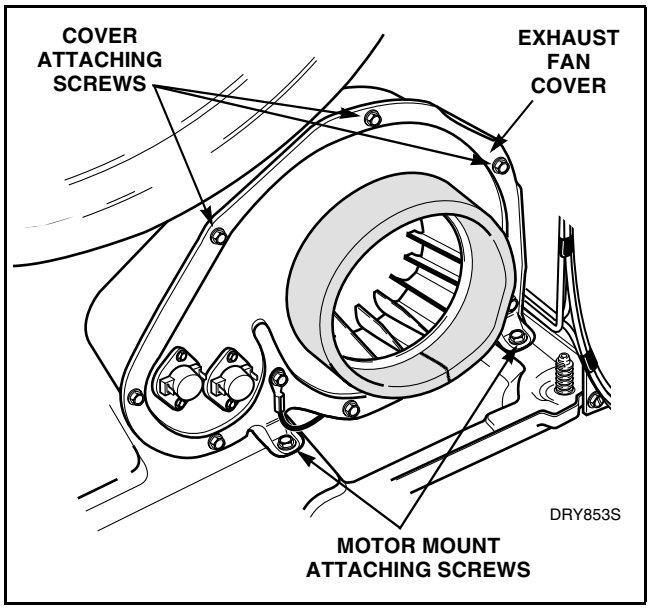

Figure 29

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

52. EXHAUST DUCT

a. Disconnect electric power, vent (and gas line if necessary) and move unit to gain access to rear of dryer.
b. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
c. Remove one hex head screw holding bracket on exhaust duct to rear of cabinet.
d. Pull duct out through rear of cabinet.

53. EXHAUST FAN COVER

a. Remove front panel. Refer to *Paragraph 31*, steps “a’ through “c”.
b. Remove lint filter. Refer to *Figure 19*.
c. Remove hex head screws holding air duct to front bulkhead and lift off. Refer to *Figure 28*.

NOTE: When reassembling, be sure felt seal on exhaust fan cover makes air tight seal on flange of air duct. Refer to *Figure 29*.

d. Disconnect wires from thermostats.

NOTE: Refer to appropriate wiring diagram when rewiring thermostats.

e. Remove hex head screw holding ground wire to exhaust fan cover. Refer to *Figure 29*.

NOTE: Ground wire must be rerouted as shown in *Figure 29*. (Refer to Section 2, Grounding.)

f. Remove hex head screws holding cover to housing. Refer to *Figure 29*.

54. MOTOR AND EXHAUST ASSEMBLY

a. Remove front panel. Refer to *Paragraph 31*, steps “a’ through “c”.
b. Remove lint filter. Refer to *Figure 19*.
c. Remove hex head screws holding air duct to front bulkhead and lift off. Refer to *Figure 28*.

NOTE: When reassembling, be sure felt seal on exhaust fan cover makes air tight seal on flange of air duct. Refer to *Figure 29*.

d. Disconnect wires from thermostats.

NOTE: Refer to appropriate wiring diagram when rewiring thermostats.

e. Remove cylinder belt from idler and motor pulleys.
f. Remove two screws holding motor mounting bracket to dryer base. Refer to *Figure 29*. Then pull complete assembly out through front of dryer.
g. Disconnect wires from motor switch.

NOTE: Refer to appropriate wiring diagram when rewiring motor switch.

IMPORTANT: When reinstalling motor and exhaust assembly, be sure wire harness on right side is clipped to motor mounting bracket and is routed along dryer base (between motor mounting bracket and right side of cabinet). Refer to *Figure 29*. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Exhaust duct MUST BE reinstalled on rear flange of exhaust housing.

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WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

To Test Drive Motor:
(Refer to *Figure 30*)

1. Disconnect wires from motor switch.

NOTE: Refer to appropriate wiring diagram when rewiring motor switch.

2. Put test meter probes on terminals 4 and 5. Meter should read approximately one on Ohm scale.
3. Put test meter probes on terminal 4 and motor frame. Meter should register “no reading” or infinite.
4. Put test meter probes on terminal 5 and motor frame. Meter should register “no reading” or infinite.
5. Put test meter probes on terminals 4 and 6. Meter should register “no reading” or infinite. Manually flex the centrifugal switch in motor and meter should read approximately two on Ohm scale.
6. Put test meter probes on terminals 1 and 2. Meter should register “no reading.” Manually flex the centrifugal switch in motor and meter should read “zero” Ohms.

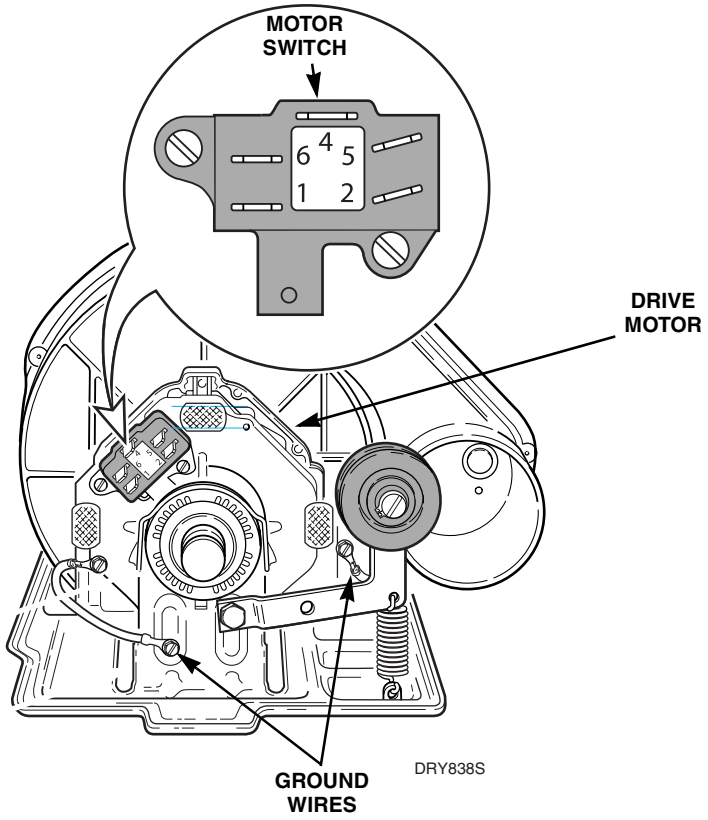

Figure 30

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WARNING

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- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

55. IMPELLER AND HOUSING

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove motor and exhaust assembly. Refer to *Paragraph 54*, steps “b” through “g”.
c. Hold motor pulley securely and unthread impeller from motor shaft. (Right hand thread.)
d. Remove three hex head screws and washers which hold the exhaust housing to the motor mounting bracket. Refer to *Figure 31*.

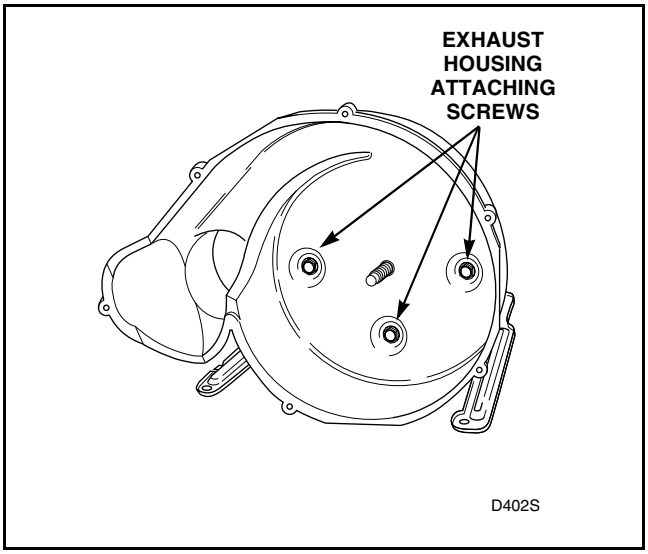

Figure 31

56. MOTOR

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove motor and exhaust assembly. Refer to *Paragraph 54*, steps “b” through “g”.
c. Remove hex head screw holding ground wire to exhaust fan cover. Refer to *Figure 29*.

NOTE: Ground wire must be routed as shown in *Figure 29*. Refer to Section 2, Grounding.

d. Hold motor pulley securely and unthread impeller from motor shaft. (Right hand thread.)
e. Remove the three screws and washers which hold the exhaust housing to the motor mounting bracket. Refer to *Figure 31*.
f. Disconnect ground wire from motor.
g. Remove two motor strap assemblies holding motor in mounting bracket. Refer to *Figure 32*. Then lift motor out of mounting bracket.

NOTE: When replacing motor, motor switch location should be a 10 o’clock. Refer to *Figure 32*.

NOTE: Refer to appropriate wiring diagram when rewiring motor switch.

TO REMOVE MOTOR SWITCH

a. Remove two screws holding switch to motor.
b. Disconnect internal motor leads from switch terminals.

NOTE: Refer to wiring schematic when rewiring internal motor switch leads.

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- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

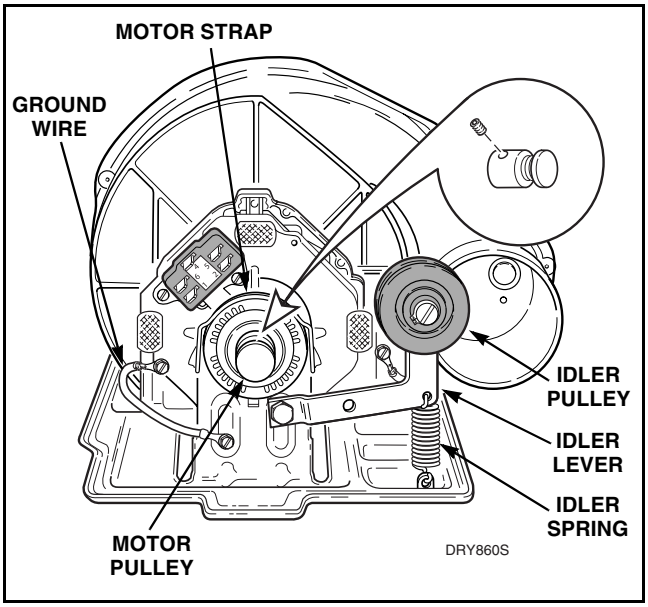

Figure 32

57. MOTOR PULLEY AND IDLER PULLEY ASSEMBLIES

a. Remove front panel. Refer to *Paragraph 31*, steps “a’ through “c”.
b. Remove motor and exhaust assembly. Refer to *Paragraph 54*, steps “b” through “g”.
c. Refer to *Figure 32* for motor and idler pulley removal.

58. FRONT BULKHEAD ASSEMBLY AND CYLINDER GLIDES

a. Remove front panel. Refer to *Paragraph 31*, steps “a’ through “c”.
b. If present, disconnect cylinder light wires at connectors.
c. Remove four hex head screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 33*.
d. Remove cylinder glides. Refer to *Figure 34*.

NOTE: Front air duct will be removed with the bulkhead unless it had been previously removed in *Paragraph 51*.

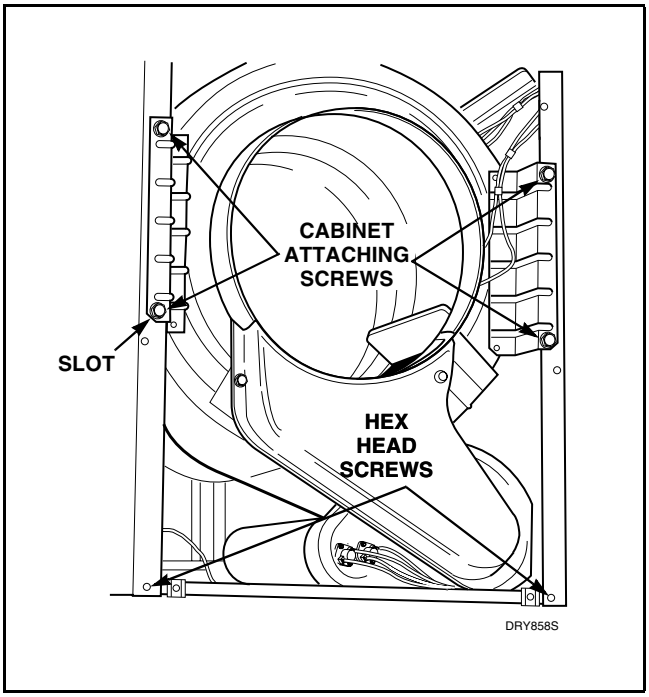

Figure 33

e. If present, remove two Phillips head screws and lockwashers holding light receptacle to front bulkhead. Refer to *Figure 23*.

TO REMOVE FRONT CYLINDER SEAL

a. Unhook spring from seal strap. Refer to *Figure 34*.

IMPORTANT: When installing seal, tape it to the bulkhead in several places to hold in position while replacing seal strap and spring. Remove tape after strap and spring are in place. Seal must be under strap securely and be folded under flanged edge around entire bulkhead. Strap must be installed with cupped surface down against the seal to hold the felt seal more firmly in place on the bulkhead. Also, the seal can be adhered to the bulkhead using 3M-1300 Sealant (obtain locally). This is accomplished by applying a bead of 3M-1300 Sealant around the entire flanged area where the felt seal contacts the bulkhead.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
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- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

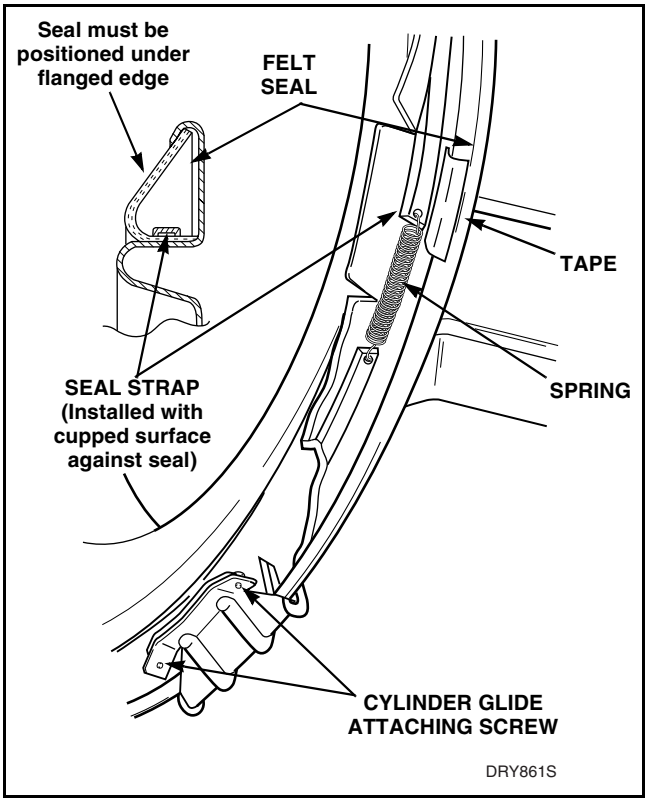

Figure 34

59. CYLINDER BELT

a. Remove front panel. Refer to *Paragraph 31*, steps "a" through "c".
b. If present, disconnect cylinder light wires at connectors.
c. Remove four hex head screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 33*.
d. Disengage belt from motor and idler pulleys. Refer to *Figure 35*.
e. While supporting cylinder, carefully remove belt off cylinder.

NOTE: When installing belt, be sure belt is properly positioned around cylinder and on motor and idler pulleys. Refer to *Figure 35*.

60. CYLINDER ASSEMBLY

a. Remove front panel. Refer to *Paragraph 31*, steps "a' through "c".
b. If present, disconnect cylinder light wires at connectors.
c. Remove four hex head screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 33*.
d. Disengage belt from motor and idler pulleys. Refer to *Figure 35*.
e. Remove two cabinet top hold-down screws. Refer to *Figure 26*.
f. Carefully remove cylinder out through front of dryer.

NOTE: When reinstalled cylinder, be sure belt is properly positioned around cylinder and on motor and idler pulleys. Refer to *Figure 35*.

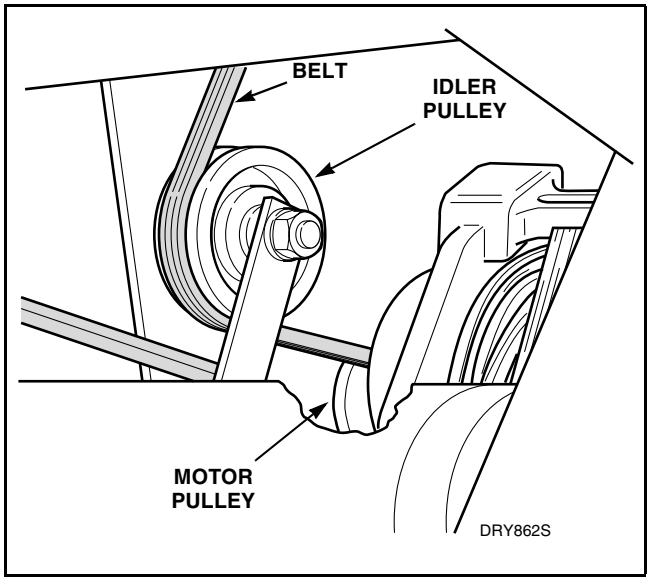

Figure 35

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WARNING

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- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

TO REMOVE BAFFLES

a. Remove screws and washers (if present) holding baffles to cylinder. Refer to *Figure 36*.

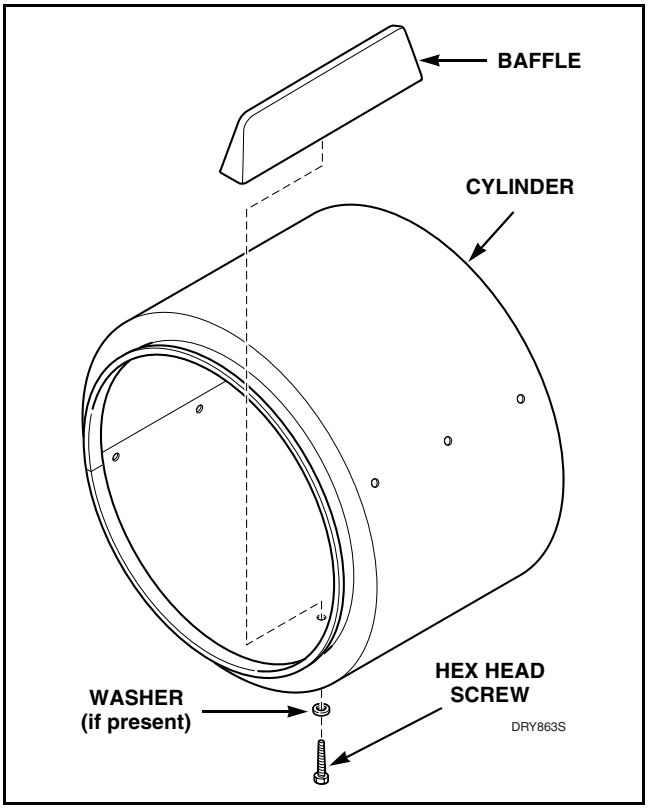

Figure 36

61. REAR SEAL

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove two cabinet top hold-down screws. Refer to *Figure 26*.
c. Lift front of cabinet top and disengage from hinges on rear of cabinet. Refer to *Figure 27*.

NOTE: Cabinet top may be raised and hinged on the rear hold-down brackets, or supported against wall behind the dryer.

IMPORTANT: When installing seal, tape it to the bulkhead in several places to hold in position while replacing seal strap and spring. Remove tape after strap and spring are in place. Seal must be under strap securely and be folded under flanged edge around entire bulkhead. Strap must be installed with cupped surface down against the seal to hold the felt seal more firmly in place on the bulkhead. Also, the seal can be adhered to the bulkhead using 3M-1300 Sealant (obtain locally). This is accomplished by applying a bead of 3M-1300 Sealant around the entire flanged area where the felt seal contacts the bulkhead.

62. CYLINDER ROLLERS AND ROLLER SHAFT

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove cylinder assembly. Refer to *Paragraph 60*, steps “b” through “e”.
c. Refer to *Figure 38* for removal of roller from roller shaft.

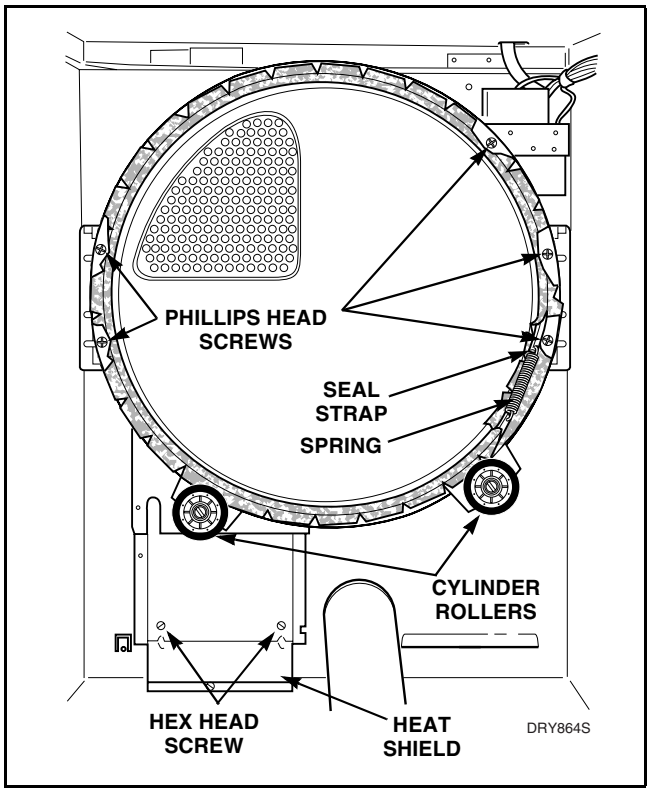

Figure 37

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

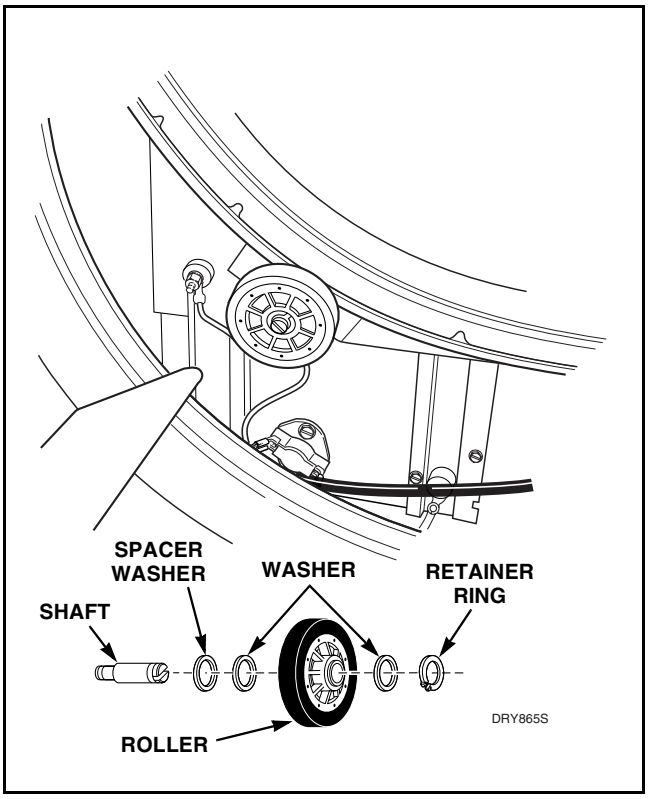

Figure 38

63. REAR BULKHEAD AND HEATER BOX

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove cylinder assembly. Refer to *Paragraph 60*, steps “b” through “e”.
c. Gas Models –Remove burner housing. Refer to *Paragraph 32*, steps “b” through “j”.
d. Gas Models–Remove four hex head screws holding heat shroud to heater box. Refer to *Figure 16*. Remove shroud out through front of dryer.
e. Electric Models–Remove two hex head screws holding element and plate to heater box. Pull element down and away from heater box. Refer to *Figure 25*.
f. Electric Models – Disconnect wires from element terminals and from high limit thermostat.

NOTE: When reassembling, be sure all wire connections are tight on element terminals and to high limit thermostat.

g. Remove two hex head screws holding heater box to heat shield. Refer to *Figure 37*.
h. Remove one Phillips head screws holding rear bulkhead to terminal block bracket. While supporting bulkhead, remove the four Phillips head screws holding rear bulkhead to mounting brackets. Refer to *Figure 37*. Lift complete assembly out of dryer.

TO REMOVE HEATER BOX FROM REAR BULKHEAD

a. Refer to *Figure 39* for removal.

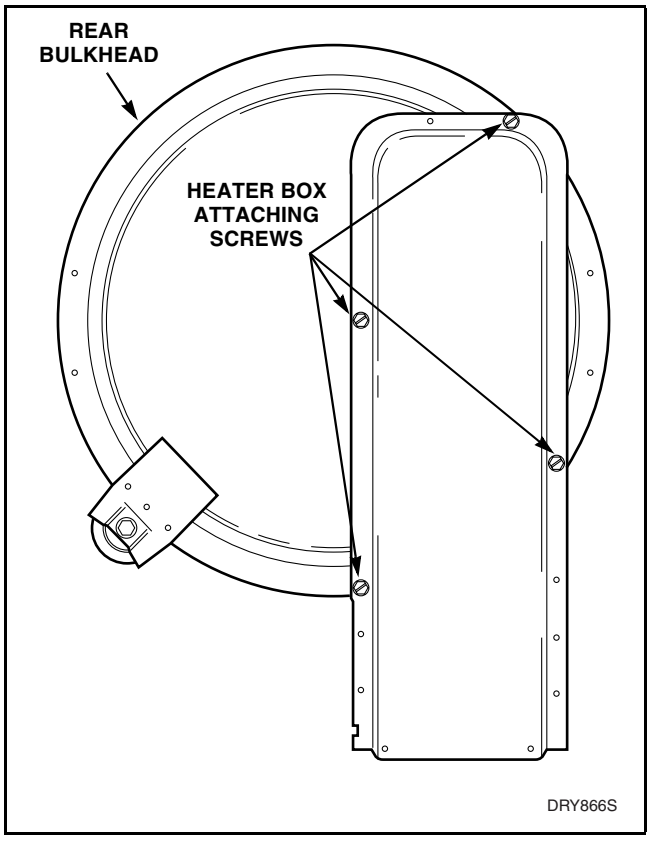

Figure 39

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

64. HEAT SHIELD

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove cylinder assembly. Refer to *Paragraph 60*, steps “b” through “e”.
c. Gas Models – Remove burner housing. Refer to *Paragraph 32*, steps “b” through “j”.
d. Gas Models – Remove four hex head screws holding heat shroud to heater box. Refer to *Figure 16*. Remove shroud out through front of dryer.
e. Electric Models – Remove two hex head screws holding element and plate to heater box. Pull element down and away from heater box. Refer to *Figure 25*.
f. Electric Models – Disconnect wires from element terminals and from high limit thermostat.

NOTE: When reassembling, be sure all wire connections are tight on element terminals and to high limit thermostat.

g. Remove two hex head screws holding heater box to heat shield. Refer to *Figure 37*.
h. Disconnect vent and move dryer to gain access to rear of dryer.
i. Remove two hex head screws holding heat shield to rear of dryer cabinet. Refer to *Figure 40*.

65. REAR MOUNTING BRACKETS

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove cylinder assembly. Refer to *Paragraph 60*, steps “b” through “e”.
c. Gas Models – Remove burner housing. Refer to *Paragraph 32*, steps “b” through “j”.
d. Gas Models – Remove four hex head screws holding heat shroud to heater box. Refer to *Figure 16*. Remove shroud out through front of dryer.
e. Electric Models – Remove two hex head screws holding element and plate to heater box. Pull element down and away from heater box. Refer to *Figure 25*.
f. Electric Models – Disconnect wires from element terminals and from high limit thermostat.

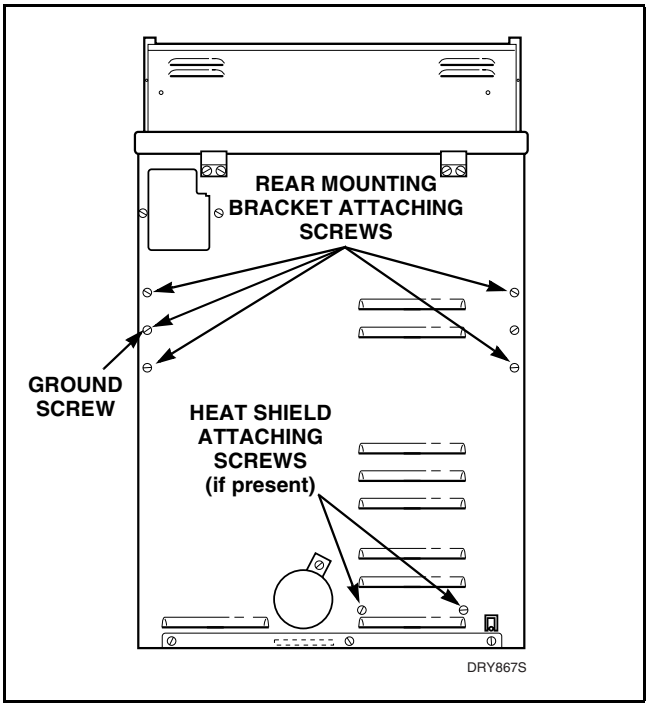

Figure 40

NOTE: When reassembling, be sure all wire connections are tight on element terminals and to high limit thermostat.

g. Remove two hex head screws holding heater box to heat shield. Refer to *Figure 37*.
h. Remove one Phillips head screw holding rear bulkhead to terminal block bracket. While supporting bulkhead, remove the four Phillips head screws holding rear bulkhead to mounting brackets. Refer to *Figure 37*. Lift complete assembly out of dryer.
i. Remove five screws holding rear mounting brackets to rear of dryer cabinet. Refer to *Figure 40*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

66. CABINET AND BASE

a. Remove front panel. Refer to *Paragraph 31*, steps “a” through “c”.
b. Remove control panel screws and lift assembly off panel support.
c. Disconnect wire harness from all components, and ground wire in control hood. Push harness through hole in cabinet top. Set control panel aside to prevent damage.
d. Remove two cabinet top hold-down screws. Refer to *Figure 26*.
e. Lift front of cabinet top and disengage from hinges on rear of cabinet. Refer to *Figure 27*. Set cabinet top aside to prevent damage.
f. Remove cylinder assembly. Refer to *Paragraph 60*, steps “b” through “e”.
g. Disconnect wires from thermostats located on exhaust fan cover.

NOTE: Refer to appropriate wiring diagram when rewiring thermostats.

h. Remove two screws holding motor mounting bracket to dryer base. Refer to *Figure 29*. Pull complete assembly out through front of dryer.
i. Disconnect wires from motor switch.

NOTE: Refer to appropriate wiring diagram when rewiring thermostats.

j. Gas Models – Remove burner housing. Refer to *Paragraph 32*, steps “b” through “j”.
k. Gas Models – Remove four hex head screws holding heat shroud to heater box and remove shroud. Refer to *Figure 16*.
l. Electric Models – Remove two hex head screws holding element and plate to heater box and remove. Refer to *Figure 25*.
m. Electric Models – Disconnect wires from element terminals and from high limit thermostat.

NOTE: When reassembling, be sure all wire connections are tight on element terminals and to high limit thermostat.

n. Remove two hex head screws holding heater box to heat shield. Refer to *Figure 37*.
o. Remove one Phillips head screw holding bulkhead to terminal block bracket. While supporting bulkhead, remove the four Phillips head screws holding rear bulkhead to mounting brackets. Refer to *Figure 37*. Lift complete assembly out of dryer.
p. Disconnect vent and move dryer to gain access to rear of dryer.
q. Remove two hex head screws holding heat shield to rear of dryer cabinet. Refer to *Figure 40*.
r. Remove two hex head screws from front edge at each side of cabinet. Refer to *Figure 33*. Remove remaining screws from around bottom of cabinet and lift cabinet off base.

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Section 6
Adjustments

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

67. TIMER KNOB INDICATOR

a. With timer knob indicator in top OFF position, push in and hold start switch button. Slowly turn timer knob clockwise only until dryer starts. Then immediately open the loading door to stop dryer.

b. If dryer starts with indicator still in the OFF position, proceed as follows:
   (1) Hold knob firmly and move indicator and plate one “click” in a clockwise direction.
   (2) Check position in reference to the right hand vertical line of the OFF position.
   (3) If the indicator is still in the OFF portion of dial, move it one more “click” in a clockwise direction.
   (4) Repeat this adjustment until the indicator is on the right hand vertical line of the OFF position.

c. If dryer starts with indicator past the right hand vertical line of the OFF position, follow instructions in “Step b” above EXCEPT move indicator and plate in a counterclockwise direction one “click” at a time until indicator and right hand vertical line of OFF position match up.

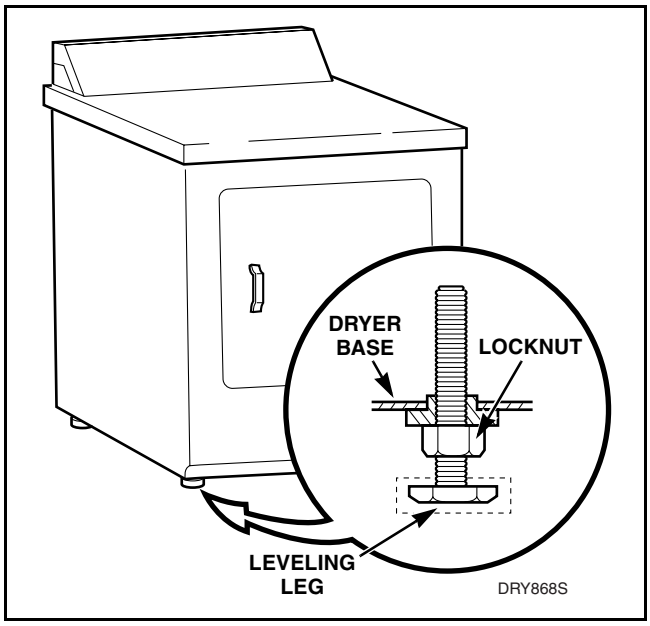

Figure 41

68. LEVELING LEGS

a. Threads locknuts down to heads of leveling legs, then thread legs into dryer base until head extend out of base approximately 3/4 inch. Refer to *Figure 41*.

b. Turn legs in or out of base as necessary to level dryer. All four legs must rest firmly on the floor.

c. Tighten locknuts securely against dryer base. Refer to *Figure 41*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

69. BURNER FLAME (Gas Models)

a. Close loading door, set fabric selector switch at NORMAL, set timer at "65", and push start switch button to start dryer.

b. Allow dryer to operate for approximately five minutes, then open access door and loosen air shutter lockscrew. Refer to *Figure 42*.

c. Turn air shutter to the right or left to obtain a soft, uniform blue flame. (A lazy, orange-tipped flame indicates lack of air. A harsh, roaring, very blue flame indicates too much air.)

d. After proper flame is obtained, tighten air shutter lockscrew securely. Refer to *Figure 42*.

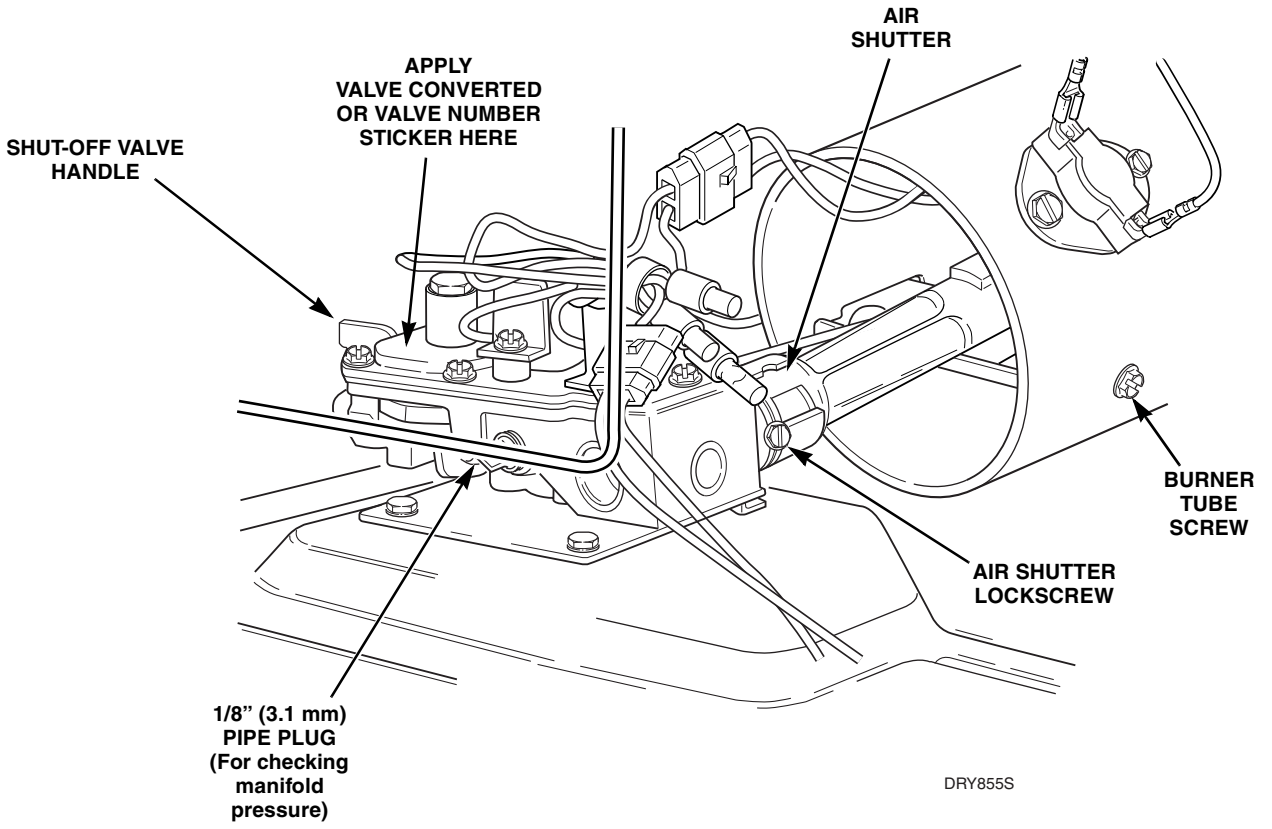

Figure 42

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Section 7
Gas Burner Conversion Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

WARNING

This conversion kit is to be installed by AUTHORIZED DEALERS or DISTRIBUTORS on their premises and in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Failure to follow instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.

W312

70. CONVERSION KITS – Glow Bar Ignition System

All gas dryers manufactured with glow bar ignition are factory equipped for Natural/Mixed gas operation.

No. 56412 Natural/Mixed to L.P. Gas Kit is available from your parts supplier. This kit consists of:

1	- 51211	Burner Orifice Spud
1	- 53390	Block-Open Plug and Gasket
1	- 53408	Change-Over Sticker
1	- 55753	"Valve Converted" Sticker
2	- 56426	L.P. Gas Stickers

IMPORTANT: The Conversion Kit is intended for installation only in unused dryers. Installation should be made by authorized Dealers or Distributors on their premises.

NOTE: When converting the dryer gas valve to L.P. gas, be sure the incoming gas supply line is equipped with a pressure regulator (located ahead of the dryer) that will maintain the gas supply to the dryer at 11 ± 2 inches (2.74 ± .4 kPa) water column pressure.

No. 56413 L.P. to Natural/Mixed Gas Kit is available for field conversion. This kit consists of:

1	- 50326	Burner Orifice Spud
1	- 53556	Change-Over Sticker
1	- 53952	Vent Screw and Gasket
1	- 56414	Valve Number Sticker
2	- 56427	Natural Gas Stickers

IMPORTANT: Installation of this Conversion Kit must be made by a qualified serviceman, or an Authorized Dealer or Distributor.

NOTE: When converting the dryer gas valve to Natural Gas, be sure the incoming gas supply line is equipped with a pressure regulator (located ahead of the dryer) that will maintain the gas supply to the dryer at 7 ± 2 inches (1.74 ± .5 kPa) water column pressure.

71. ORIFICE INFORMATION

Burner Orifice	Kind of Gas	Part Number	Stamp Code
	Natural/Mixed	50326	44
	Liquefied Petroleum (L.P.)	51211	55

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

72. INSTALLATION INSTRUCTIONS FOR 56412 AND 56413 GAS KITS

WARNING

Failure to follow these gas conversion instructions may result in conditions which can produce bodily injury and/or property damage.

a. Apply thumb pressure to the right side of access door. When door opens, move door to the left to disengage from door supports.
b. Disconnect igniter wires at quick disconnect blocks.
c. Remove hex head screw (located on right side of burner housing) holding burner tube and igniter in place.
d. Carefully move burner tube toward rear of dryer, far enough to permit removal of burner orifice spud from orifice adapter.

NOTE: Tab on burner tube may have to be removed from slot in burner housing to obtain enough clearance.

56412 Gas Kit:

e. Turn burner orifice spud out of orifice adapter and install No. 51211 L.P. Burner Orifice Spud (metal stamped No. 55). Torque new burner orifice spud to 15 inch-pounds (1.7 N-m).
f. Reinstall burner tube, tighten hex head screw firmly and reconnect igniter leads.
g. Remove vent screw and install No. 53390 Block-Open Plug and Gasket.
h. Install No. 55753 “Valve Converted” Sticker to top side of gas valve so it covers the gas valve part number.
i. Install one of the No. 56426 L.P. Gas Stickers over the old sticker on rear of cabinet, then place the second sticker over the old sticker located on backside of access door.
j. Apply the No. 53408 Change-Over Sticker to the inside of the loading door opening above the nameplate.
k. Connect electrical service and open valve in gas supply line. Start dryer and observe burner flame. Adjust air shutter to obtain a soft, uniform flame. (A lazy, orange tipped flame indicates lack of air. A harsh, roaring, very blue flame indicates too much air.) Adjust air shutter to obtain a soft uniform blue flame as follows:
   (1) Loosen air shutter lockscrew.
   (2) Turn air shutter to the right or left as necessary to obtain proper flame intensity.
   (3) After air shutter is adjusted for proper flame, tighten air shutter lockscrew securely.
l. **Be sure and observe** at least two complete ignition and burn cycles before reinstalling access door.

56413 Gas Kit:

m. Turn burner orifice spud out of orifice adapter and install No. 50326 Natural Gas Burner Orifice (metal stamped No. 44). Torque new burner orifice spud to 15 inch-pounds (1.7 N-m).
n. Reinstall burner tube, tighten hex head screw firmly and reconnect igniter leads.
o. Remove block-open plug and install No. 53952 Vent Screw and Gasket.
p. Install No. 56414 Valve Number Sticker to top side of gas valve so it covers the gas valve converted sticker.
q. Install one of the No. 56427 Natural Gas Stickers over the old sticker on rear of cabinet, then place the second sticker over the old sticker located on backside of access door.
r. Apply No. 53556 Change-Over Sticker to inside of the loading door opening above the nameplate.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

s. Connect electrical service and open valve in gas supply line. Start dryer and observe burner flame. Adjust air shutter to obtain a soft, uniform flame. (A lazy, orange tipped flame indicates lack of air. A harsh, roaring, very blue flame indicates too much air.) Adjust air shutter to obtain a soft uniform blue flame as follows:
   (1) Loosen air shutter lockscrew.
   (2) Turn air shutter to the right or left as necessary to obtain proper flame intensity.
   (3) After air shutter is adjusted for proper flame, tighten air shutter lockscrew securely.

t. **Be sure and observe** at least two complete ignition and burn cycles before reinstalling access door.

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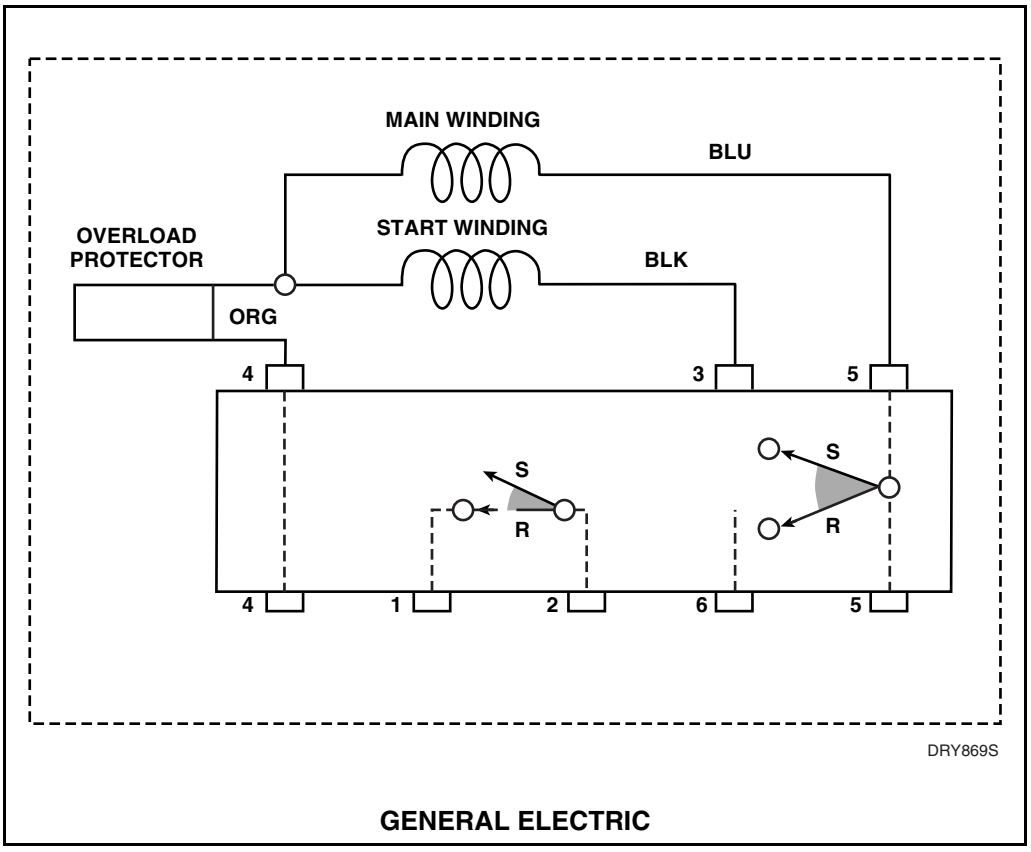
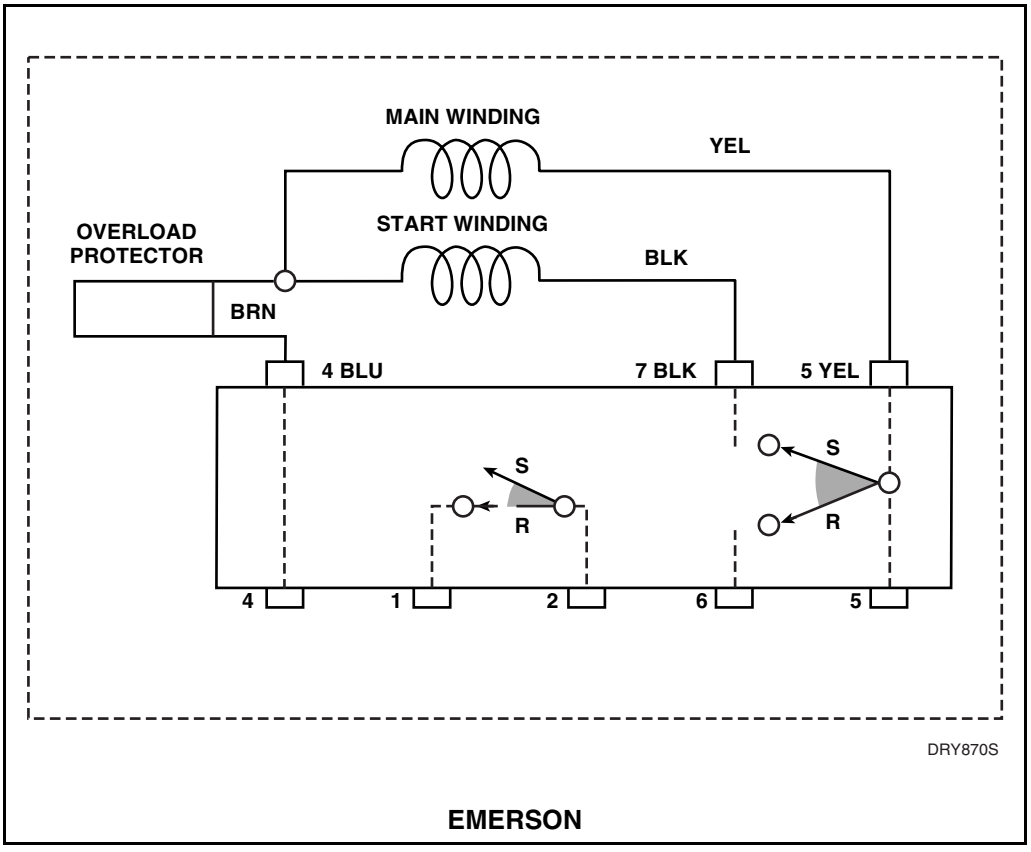
Section 8
Internal Wiring of Dryer Motor Switch



GENERAL ELECTRIC



EMERSON

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Section 9
Wiring Diagrams

WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030

**WIRING DIAGRAMS AND SCHEMATICS
FOUND ON THE FOLLOWING PAGES
ARE FOR MODELS COVERED IN THIS MANUAL.**

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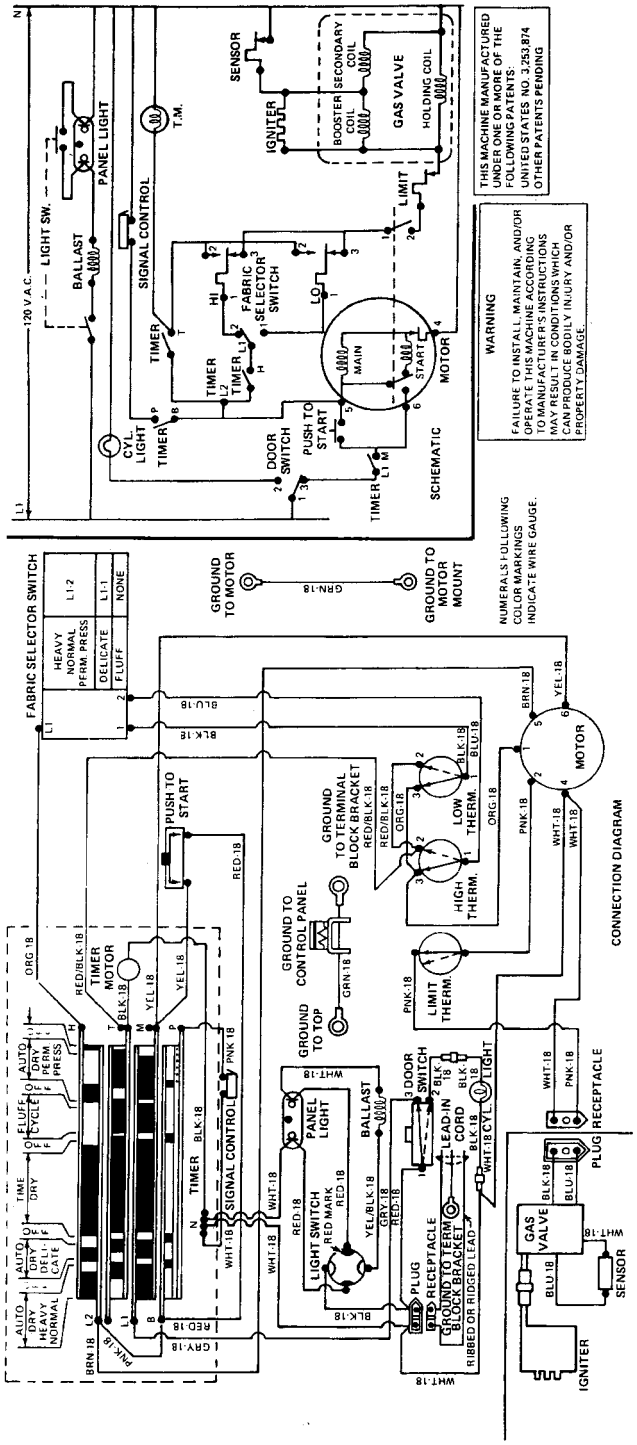

MODELS HG9280 AND HG9260

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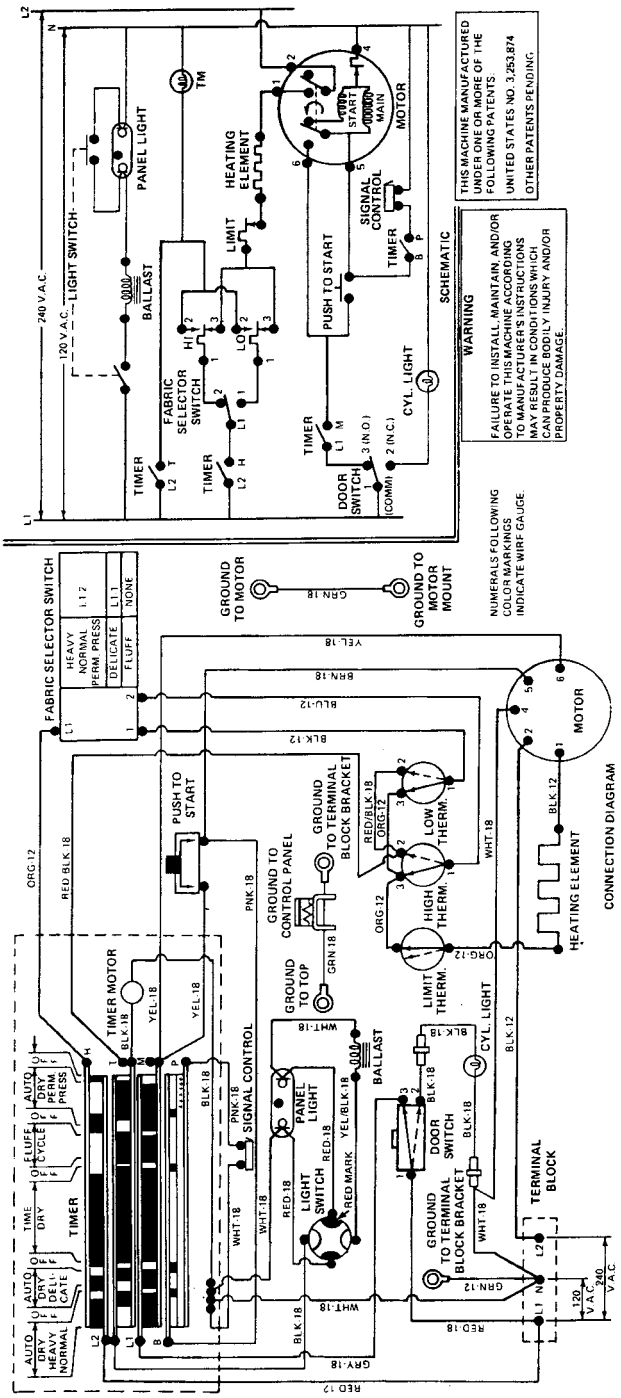

MODELS HE9270 AND HE9250

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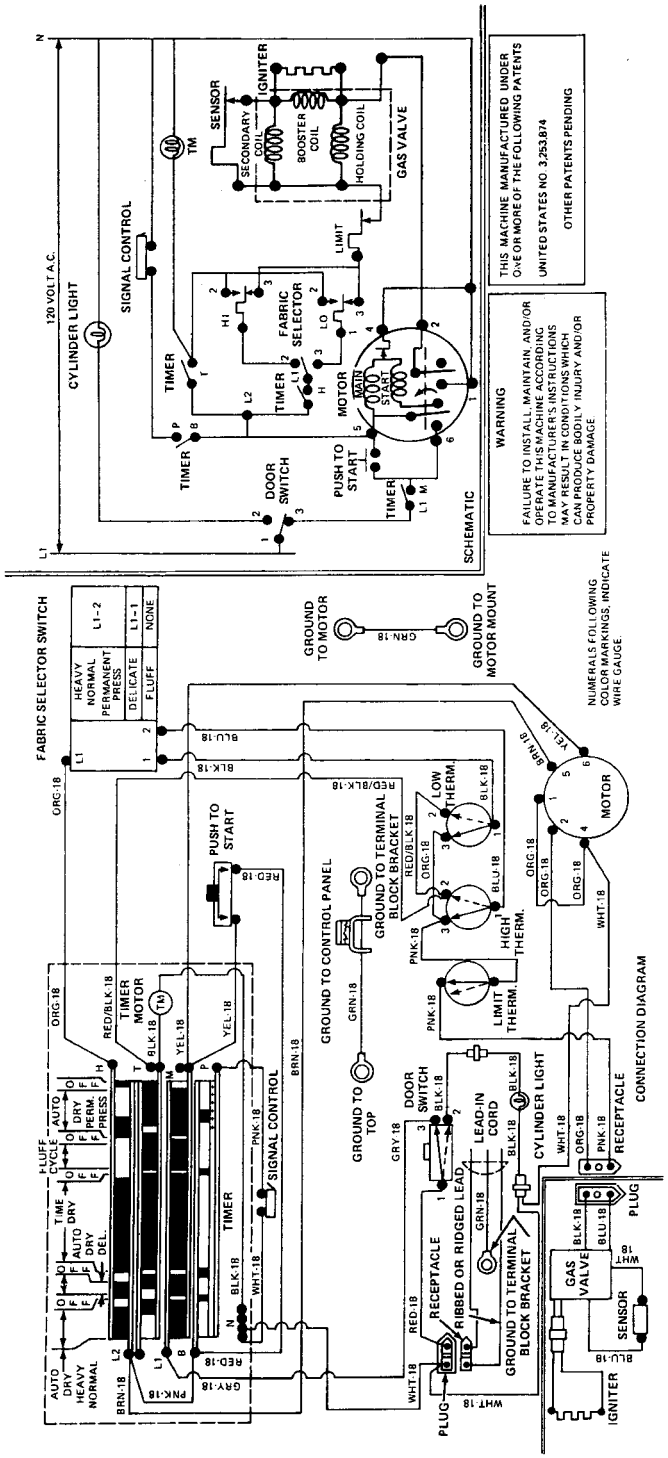

MODELS HG7290 AND HG7009
Through Serial No. SH965992

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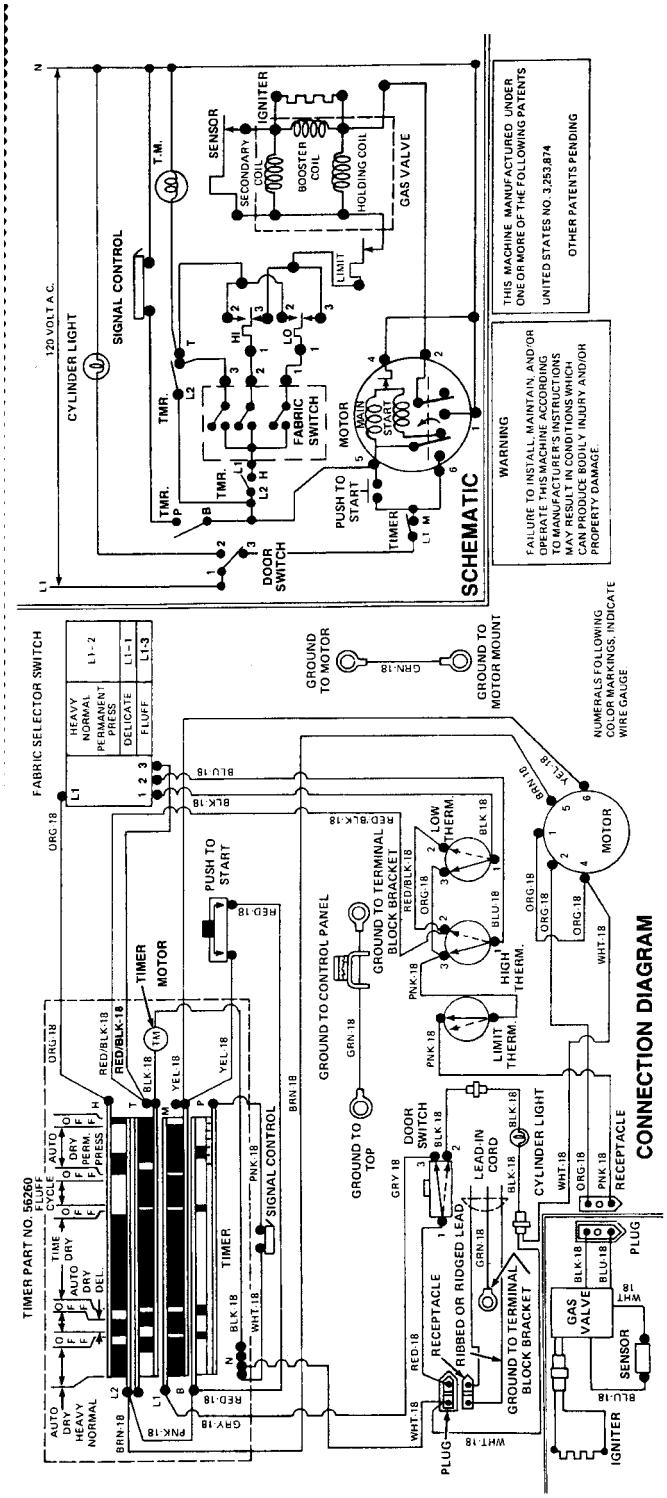

MODELS HG7290 AND HG7009
Starting Serial No. SH965993

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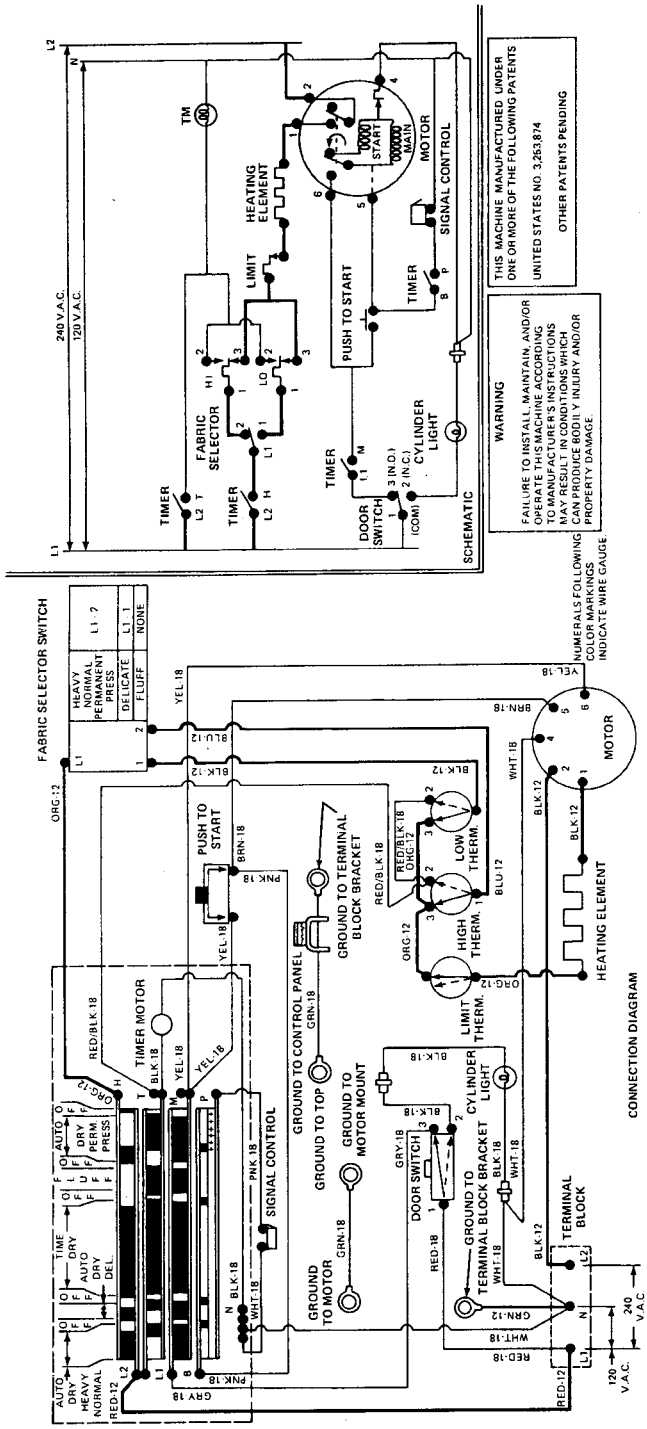

MODELS HE7230 AND HE7003
Through Serial No. SH965992

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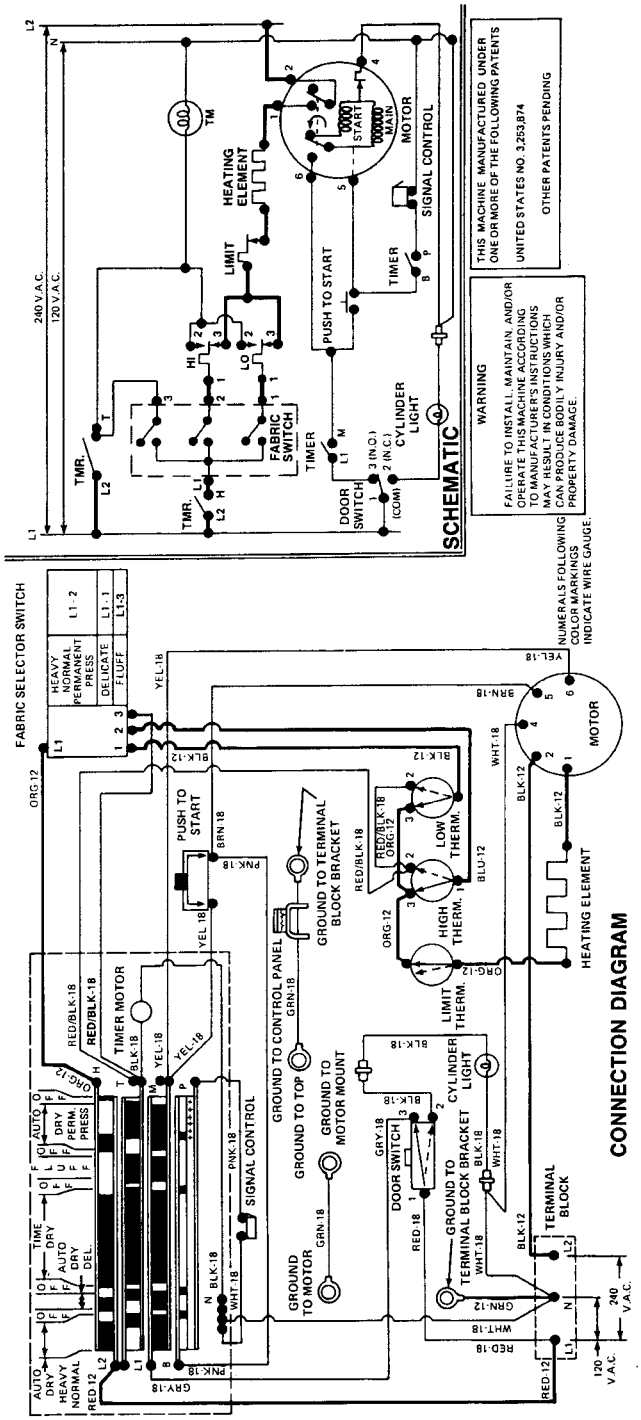

MODELS HE7230 AND HE7003
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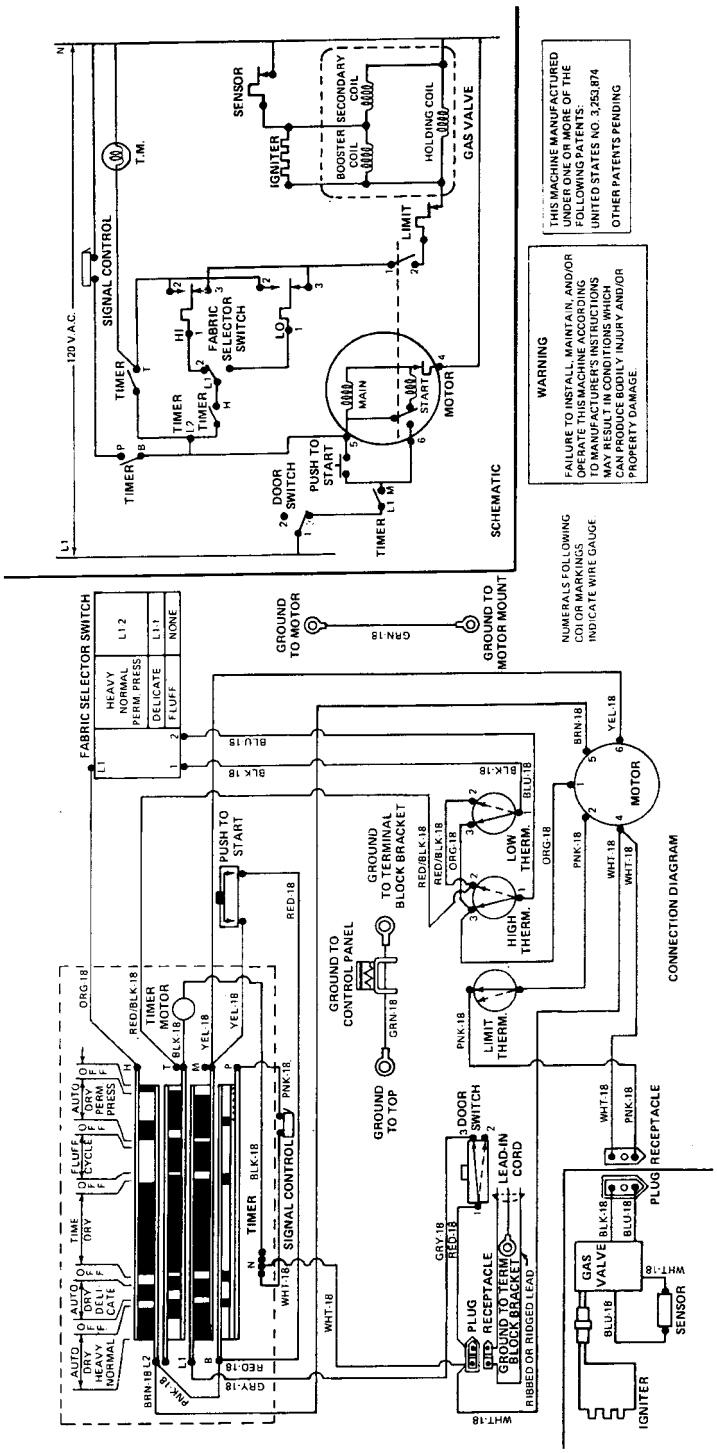

MODELS HG6660, HG6380, HG4360 AND HG4280

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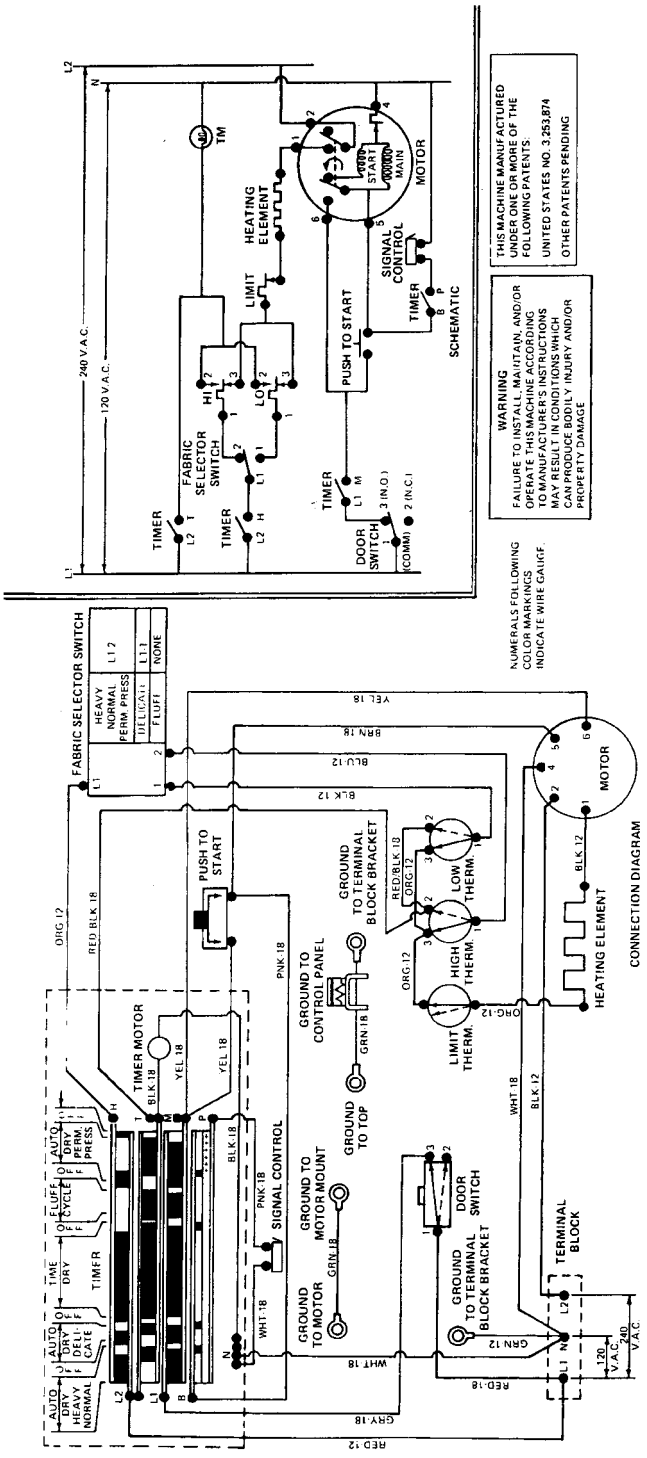

MODELS HE6650, HE6370, HE4503, HE4430, HE4350, HE4330, HE4270 AND HE4203
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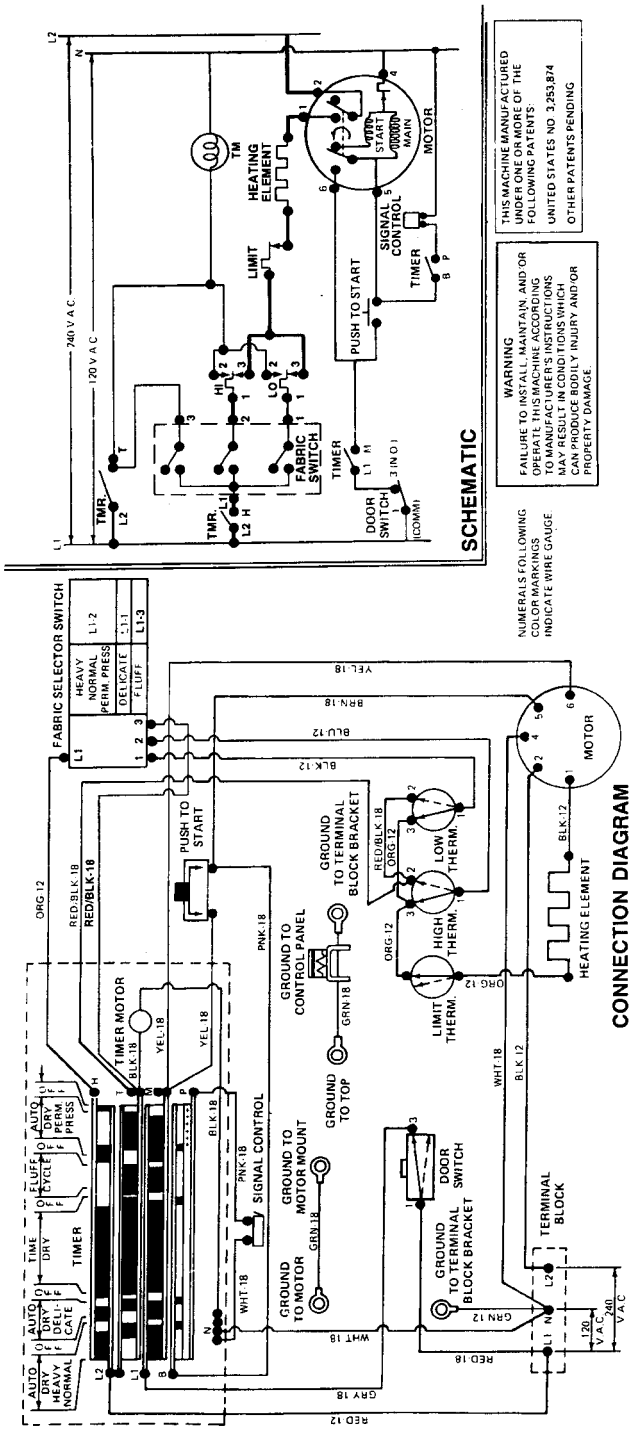

MODELS HE6650, HE6370, HE4503, HE4430, HE4350, HE4330, HE4270 AND HE4203
Starting Serial No. SH965993

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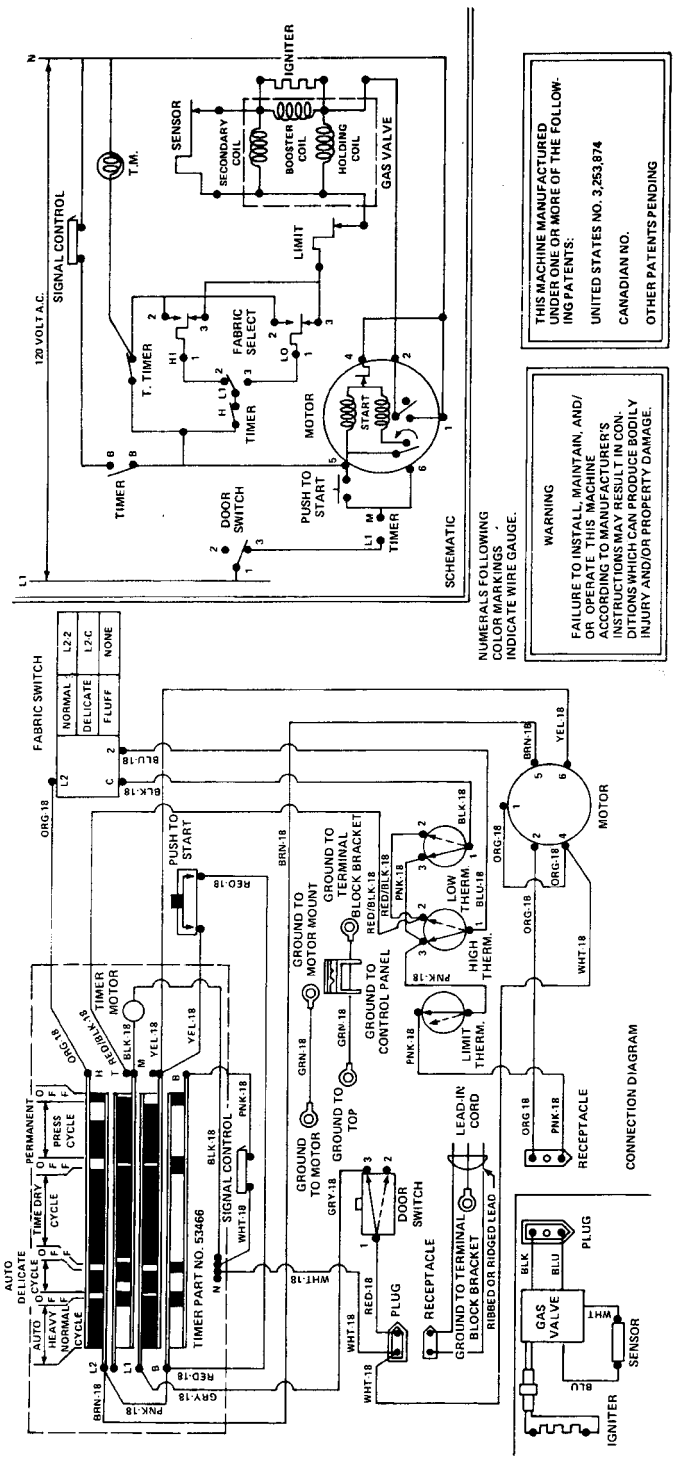

MODEL HG6494

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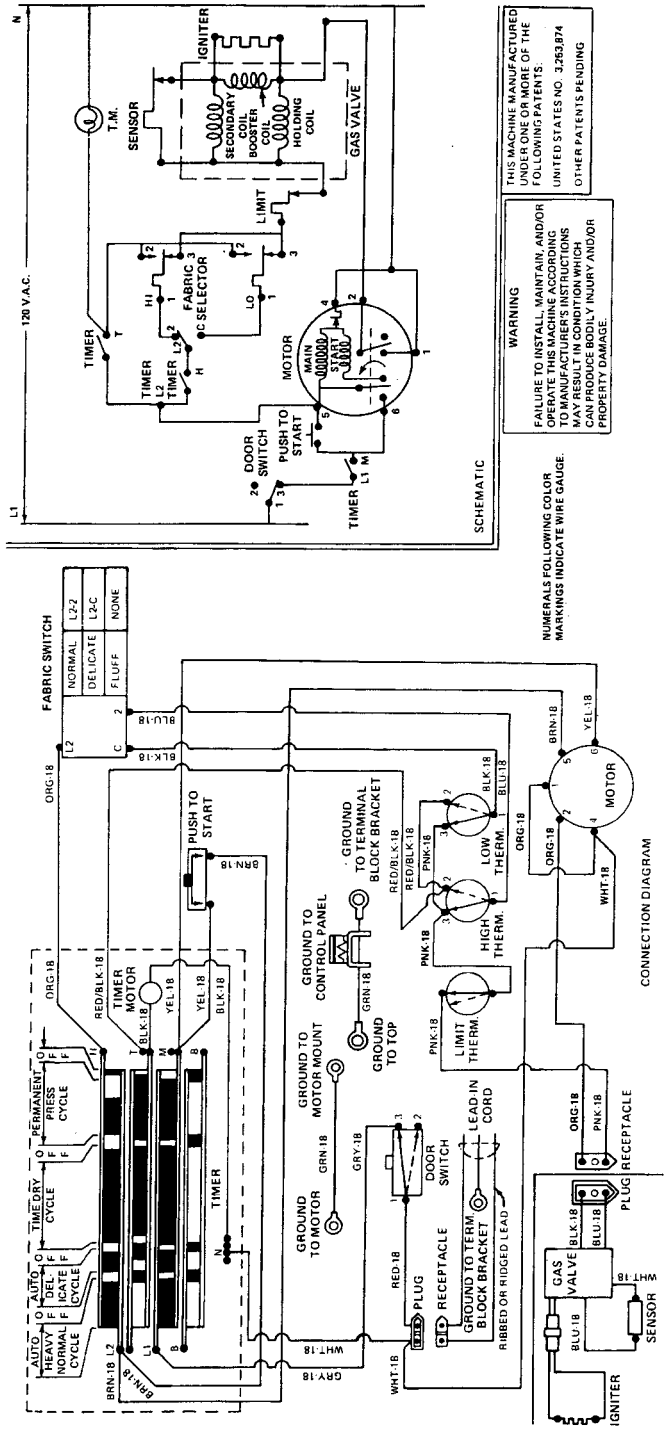

MODELS HG6490 AND HG2490

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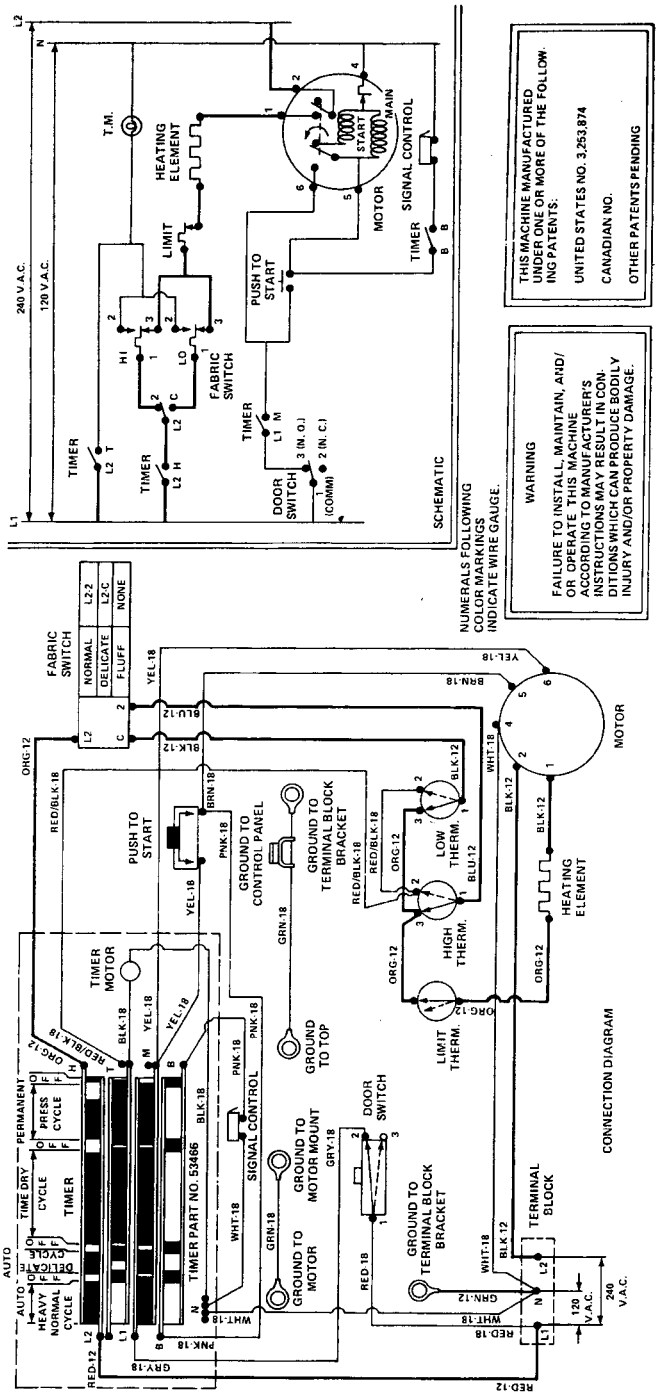

MODEL HE6434

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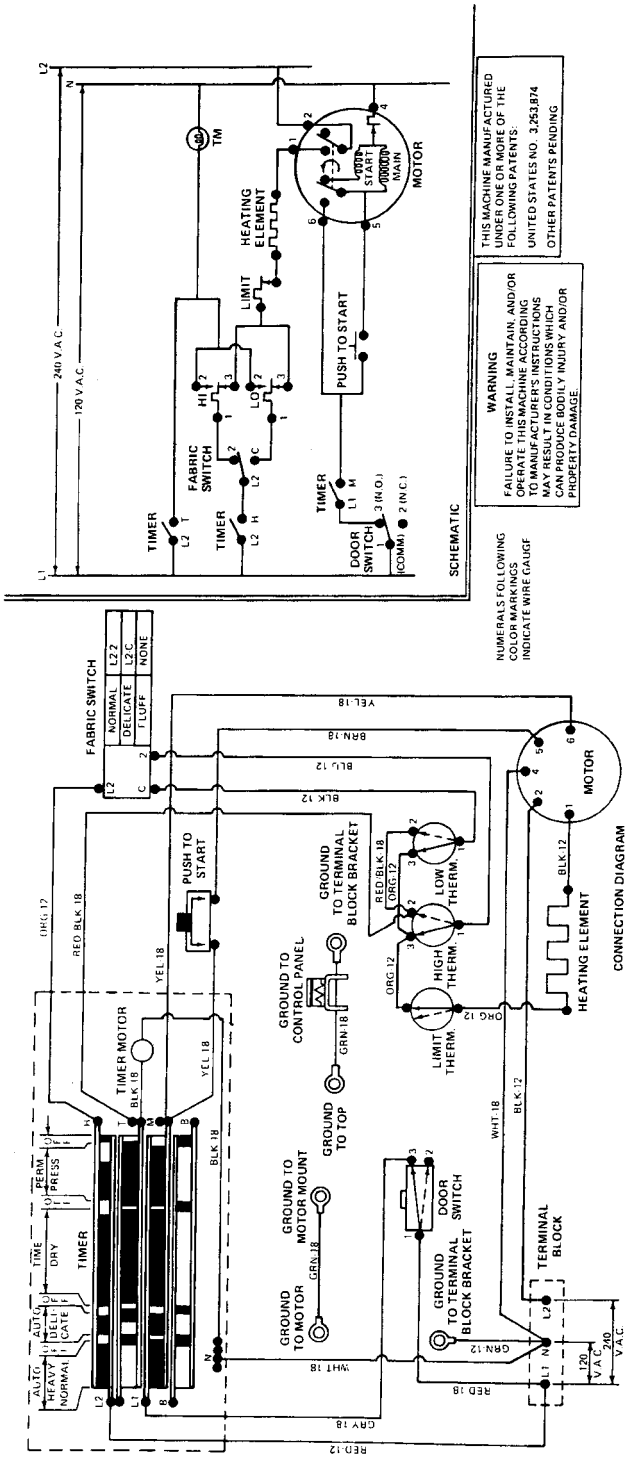

MODELS HE6430, HE2430 AND HE2250

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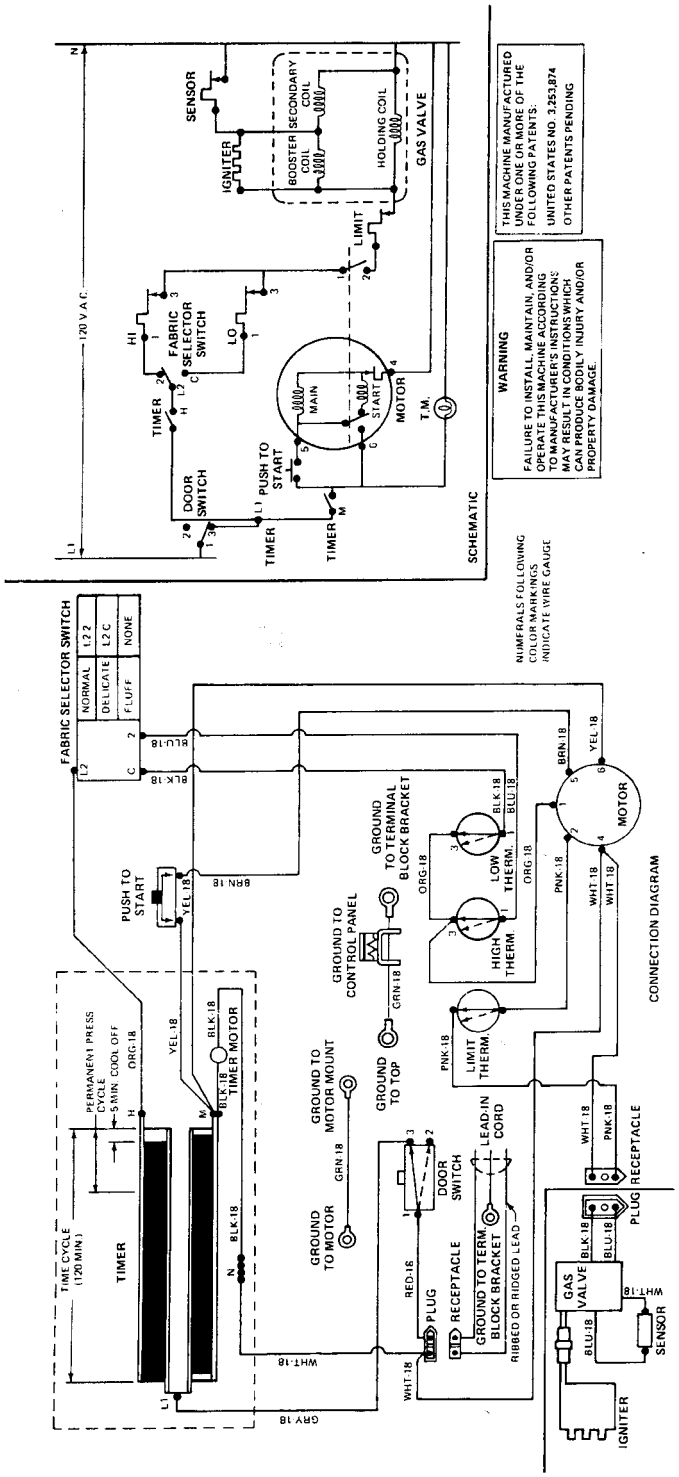
Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030



MODEL HG6360

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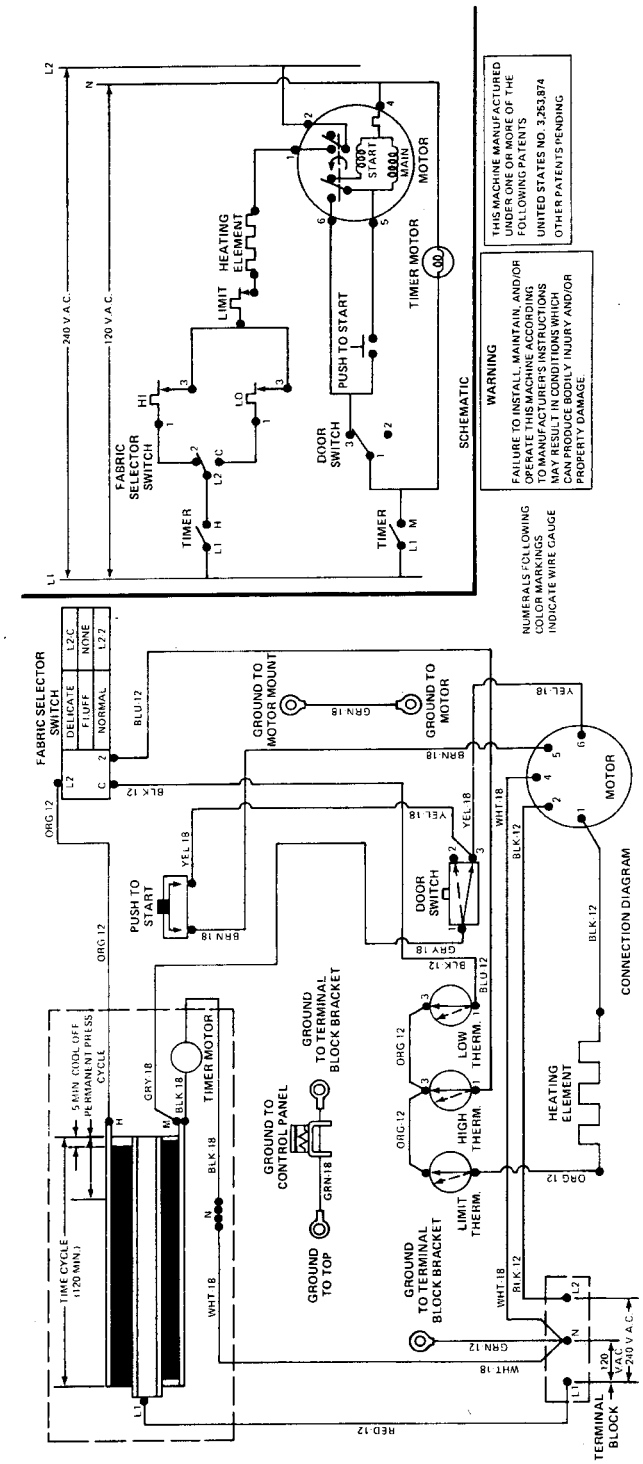
WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030



MODEL HE6350

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WARNING

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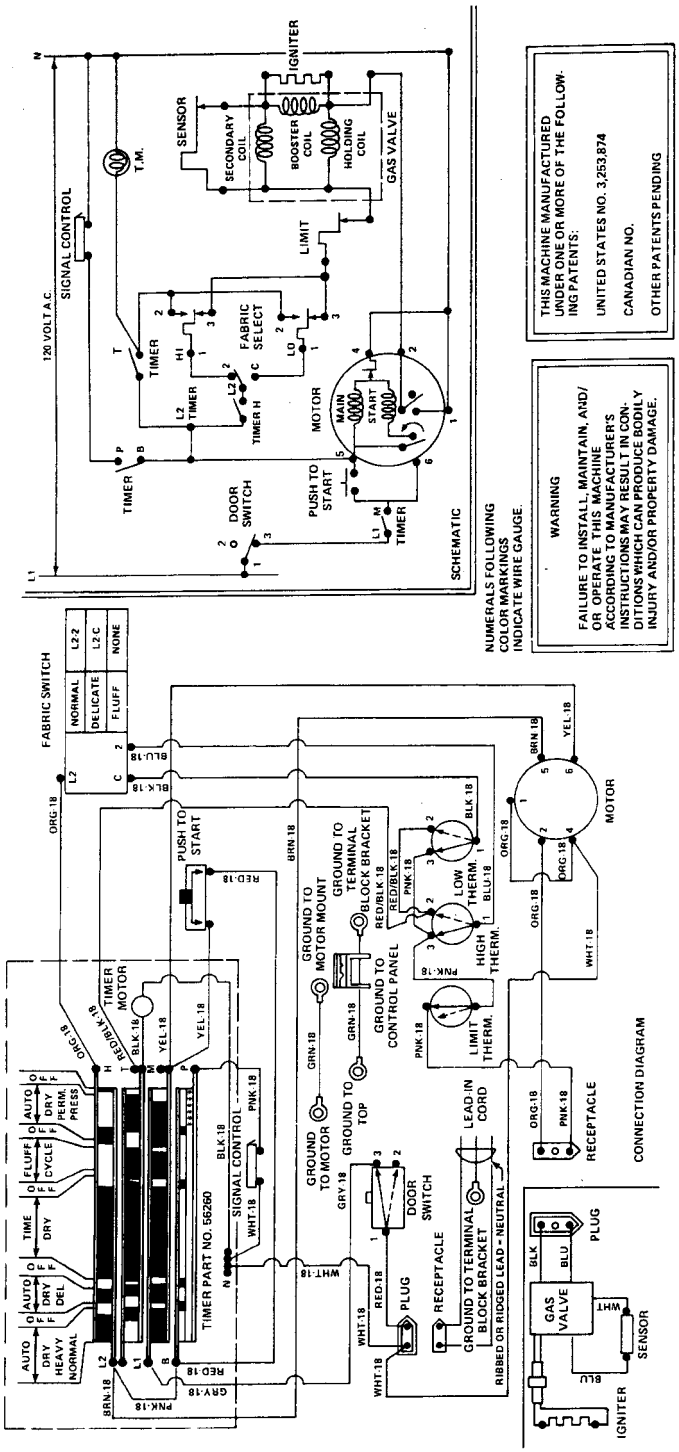
W030



MODEL HG6009
Through Serial No. SH965837

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WARNING

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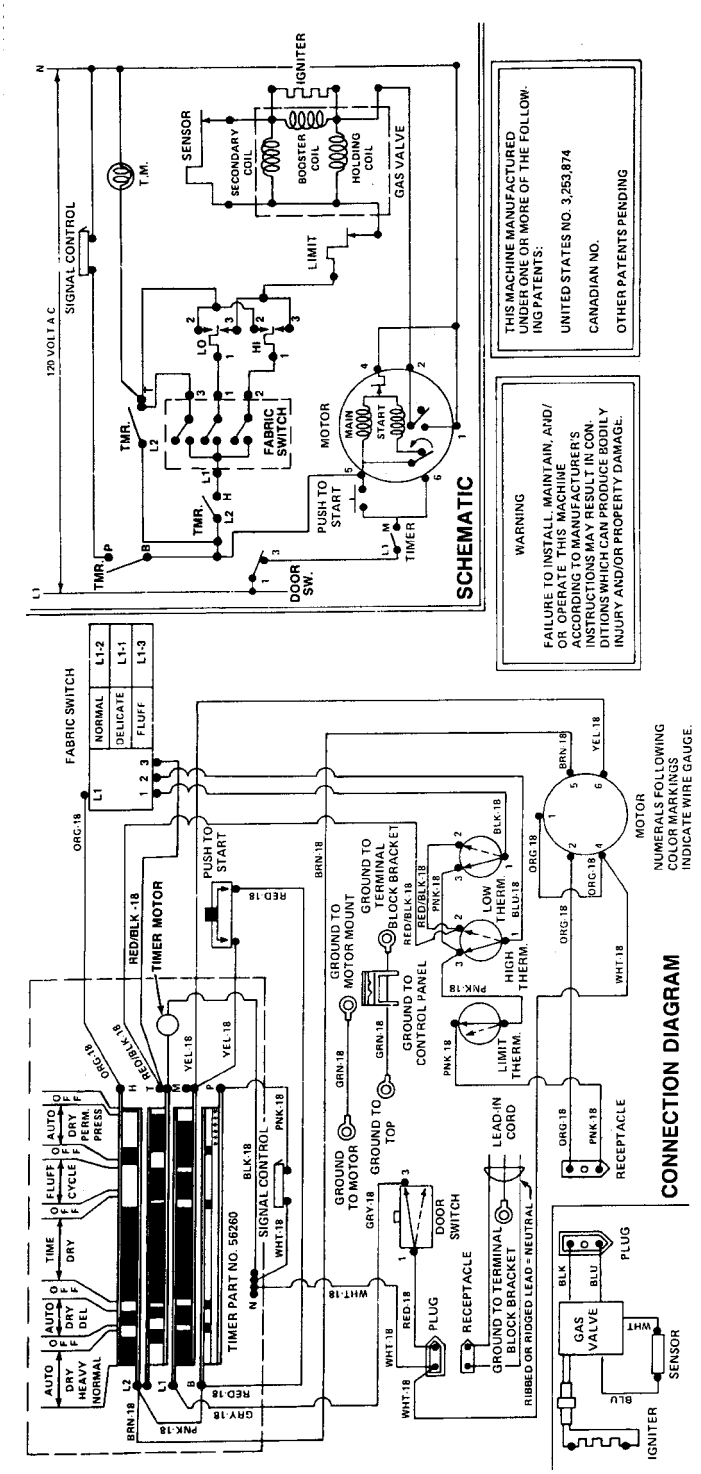
W030



MODEL HG6009
Starting Serial No. SH965838

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WARNING

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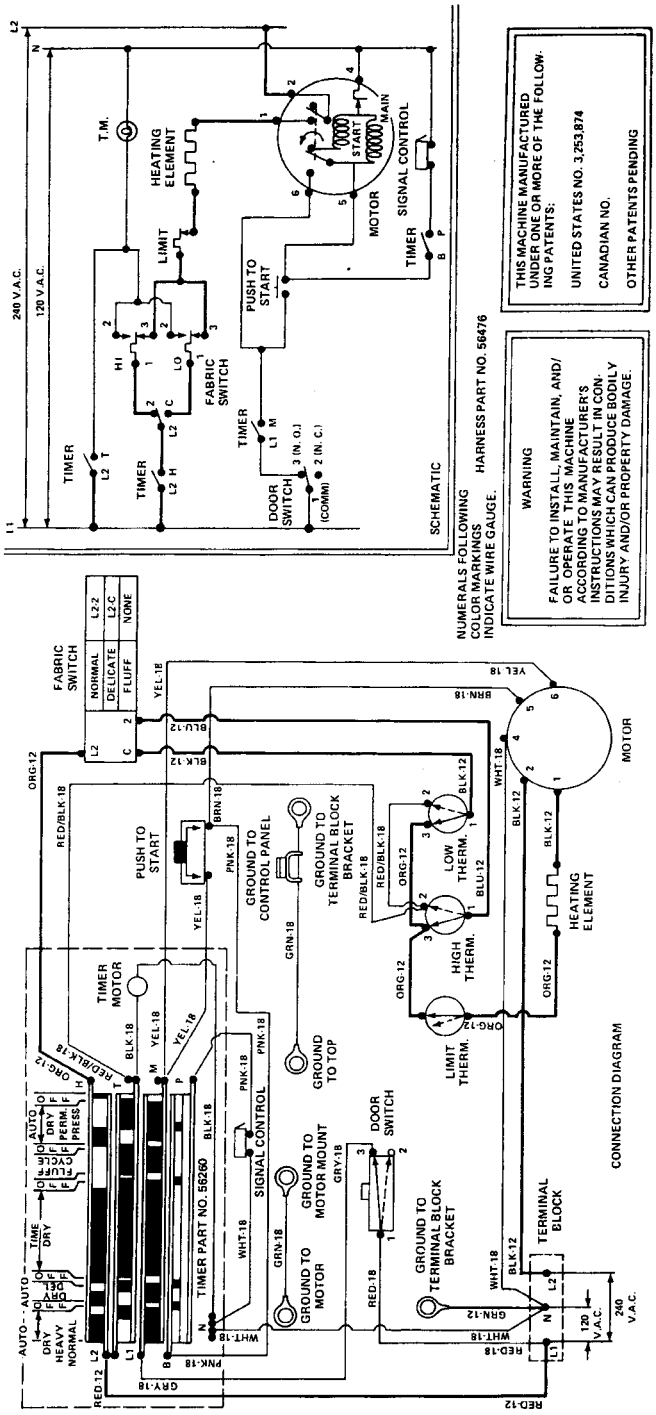
W030



MODEL HE6003
Through Serial No. SH965837

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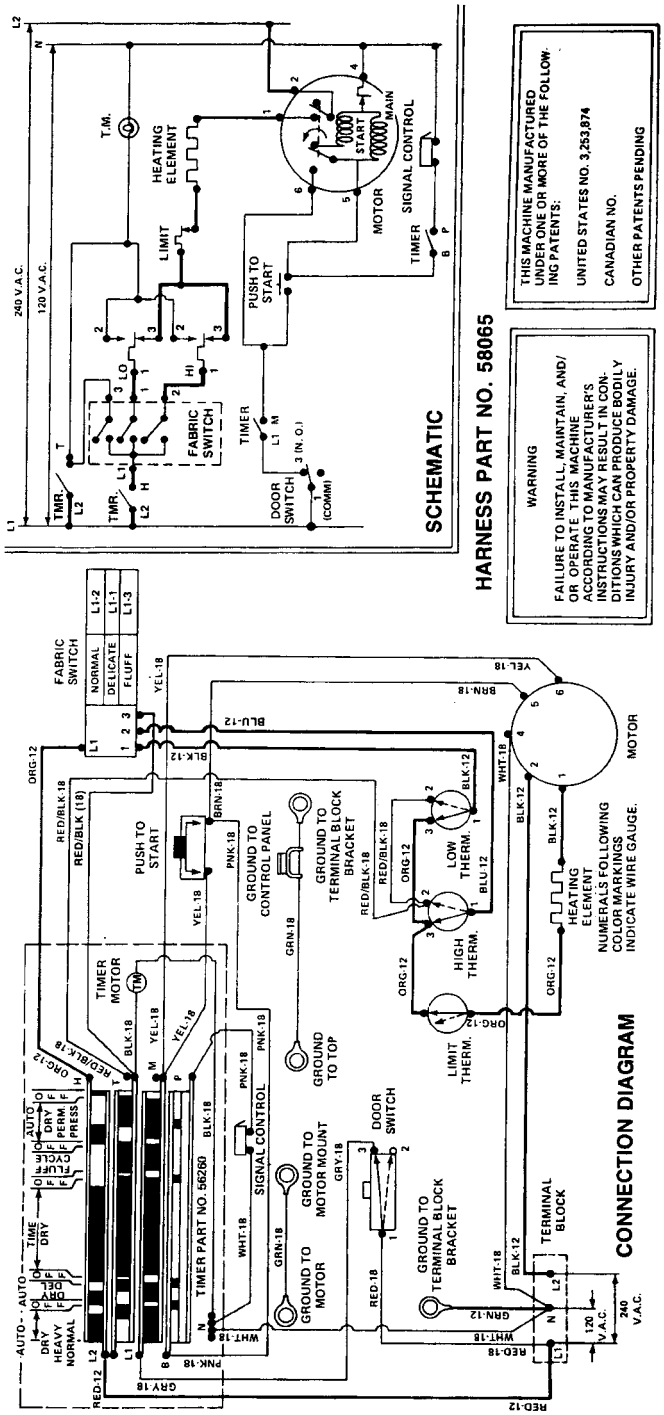
WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030



MODEL HE6003
Starting Serial No. SH965838

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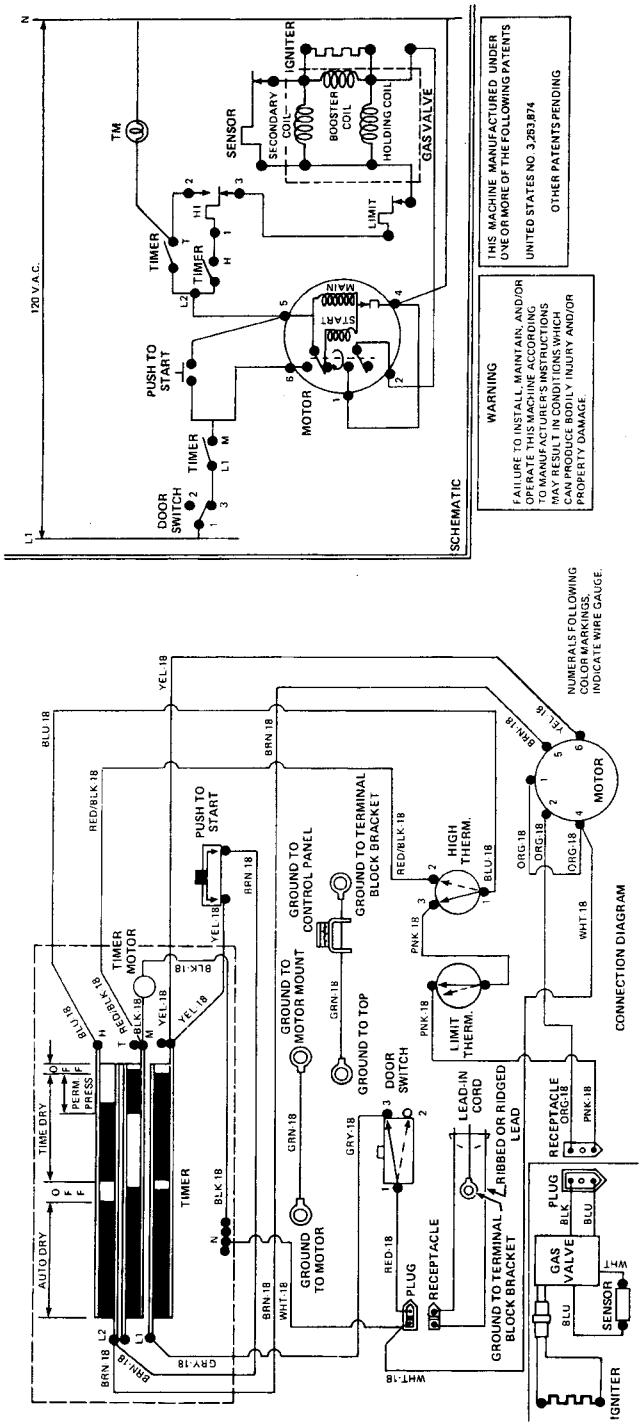
WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030



MODEL HG5390

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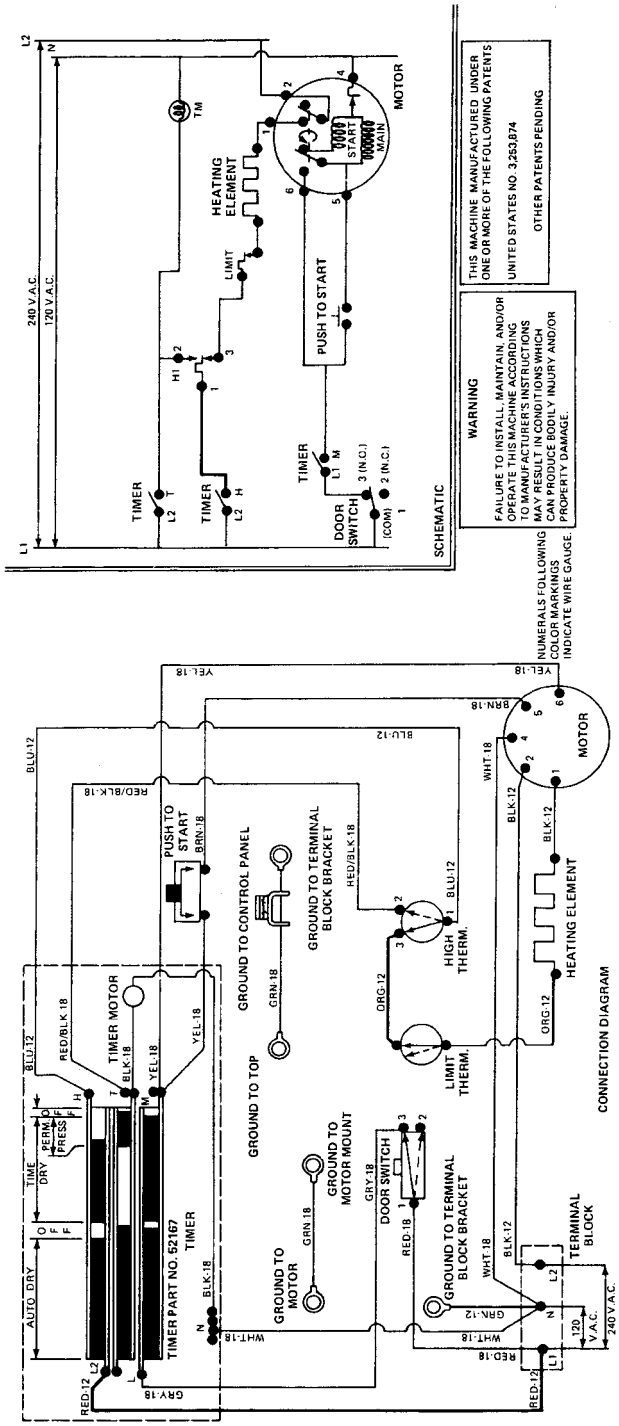
WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030



MODEL HE5330 AND HE4030

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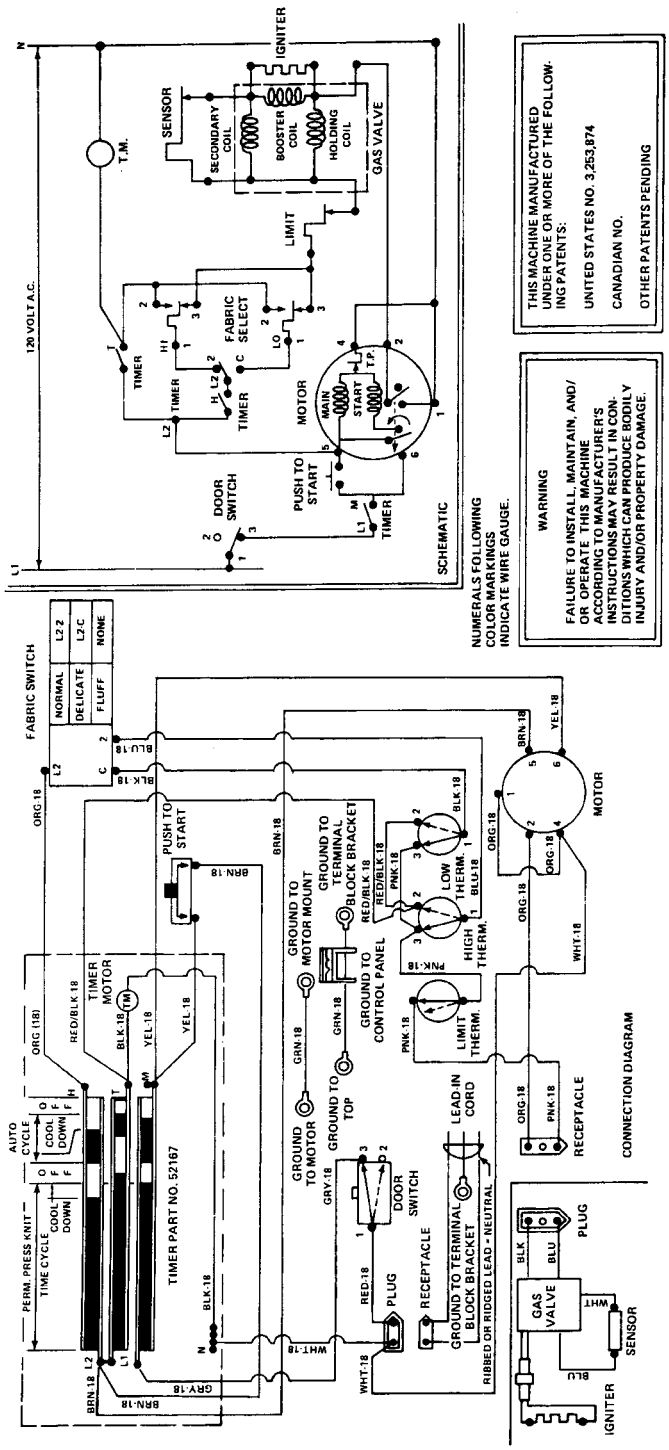
WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030



MODEL HG5009
Through Serial No. SH965837

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WARNING

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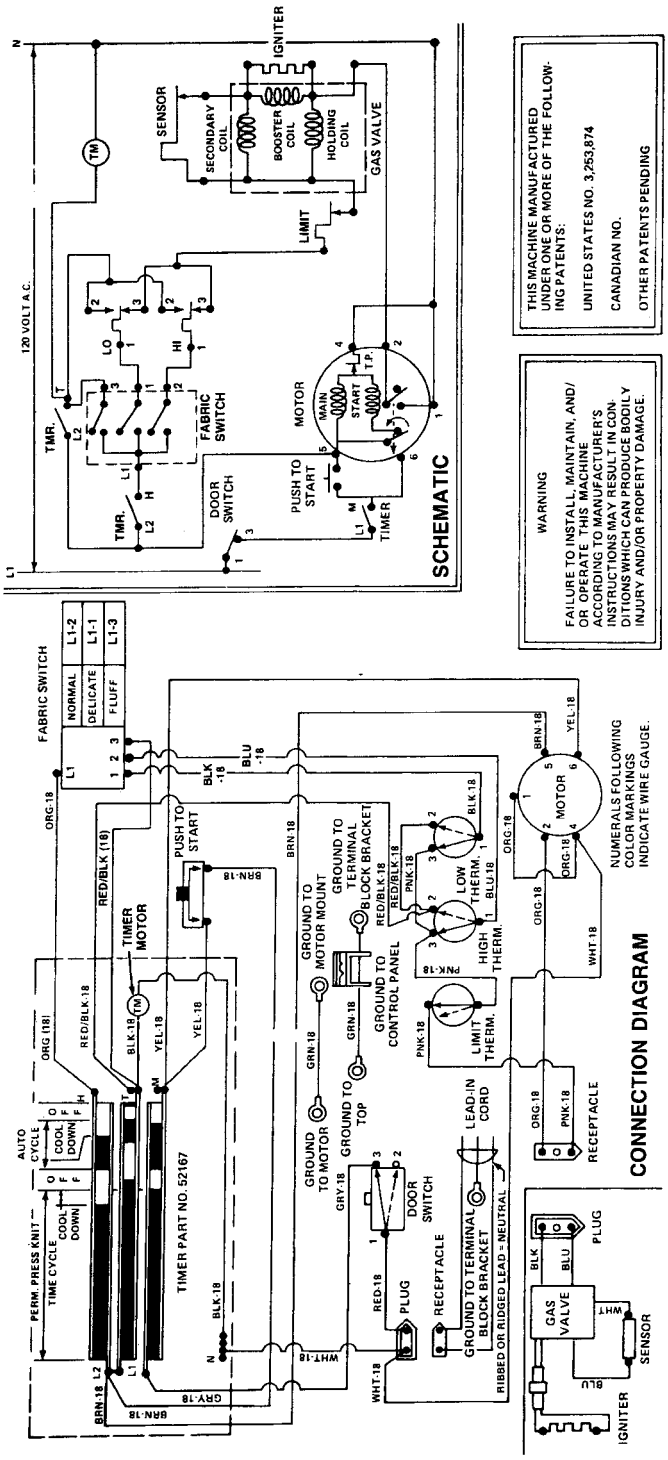
W030



MODEL HG5009
Starting Serial No. SH965838

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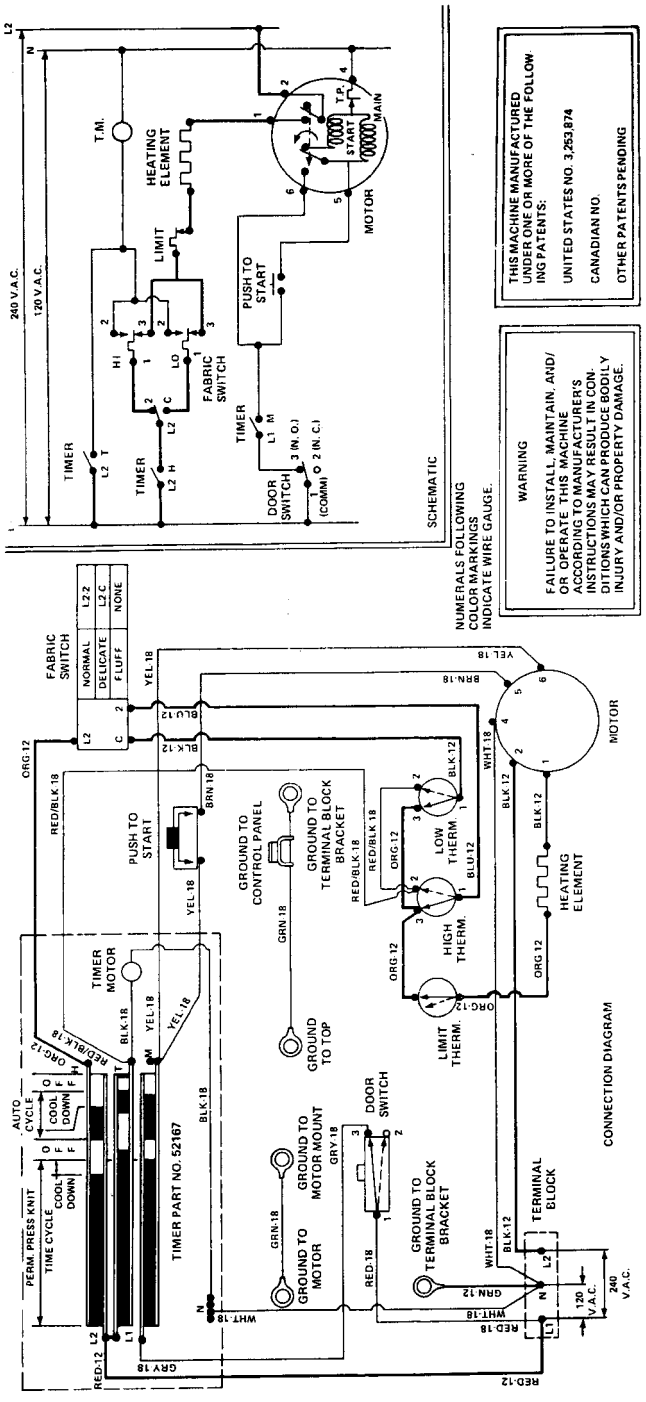
WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030



MODELS HE5003 AND HE2030
Through Serial No. SH965837

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WARNING

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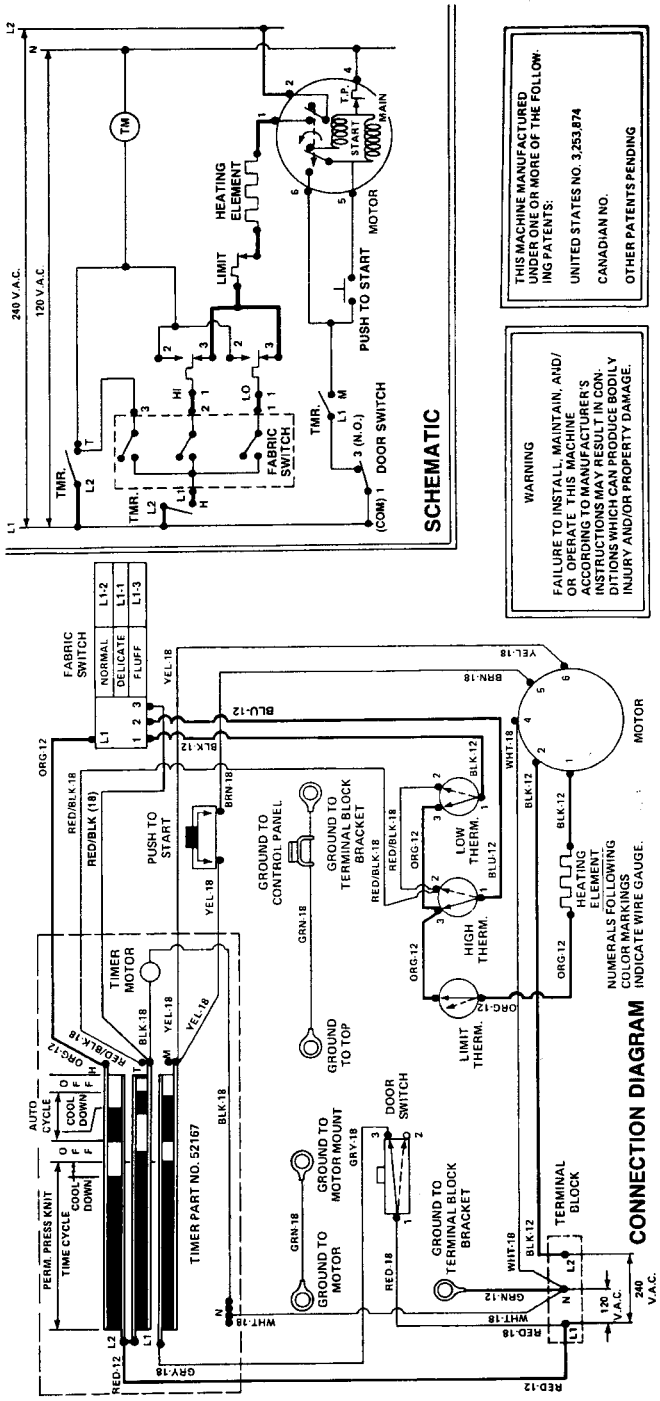
W030



MODELS HE5003 AND HE2030
Starting Serial No. SH965838

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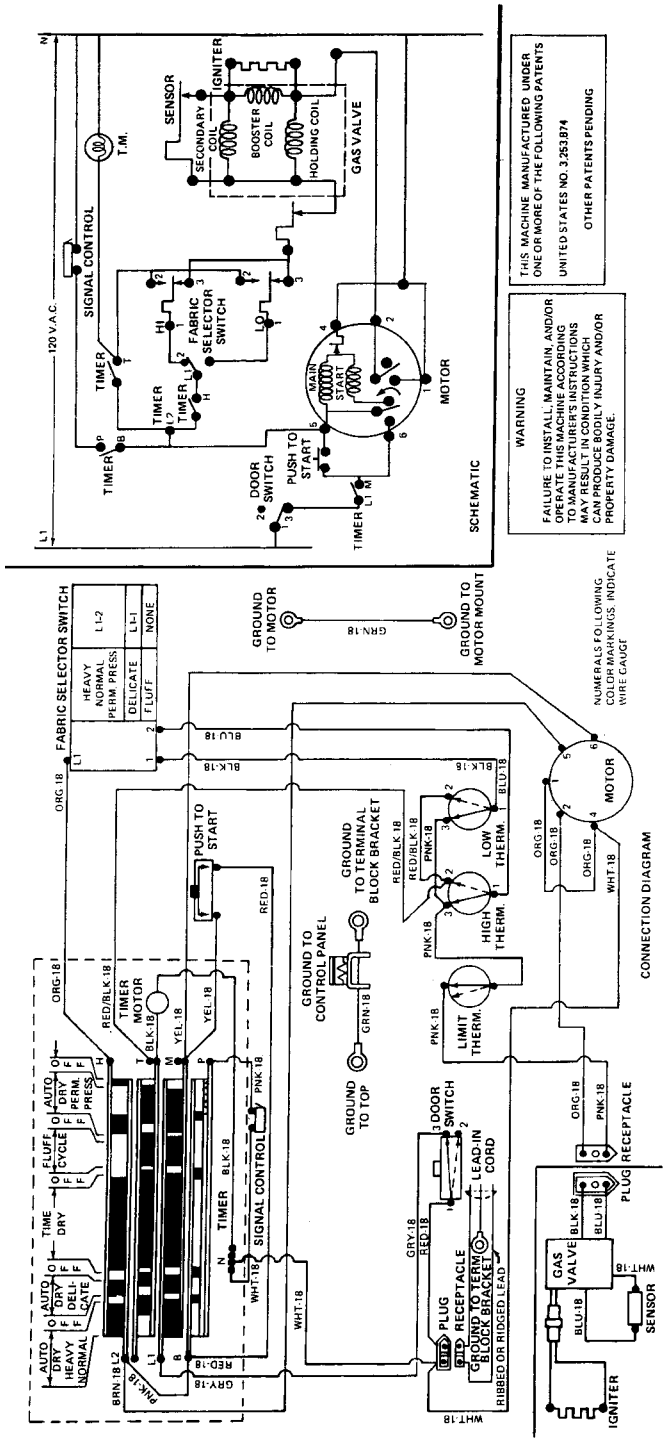
W030



MODELS HG4509, HG4490, HG4390 AND HG4209
Through Serial No. SH965992

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WARNING

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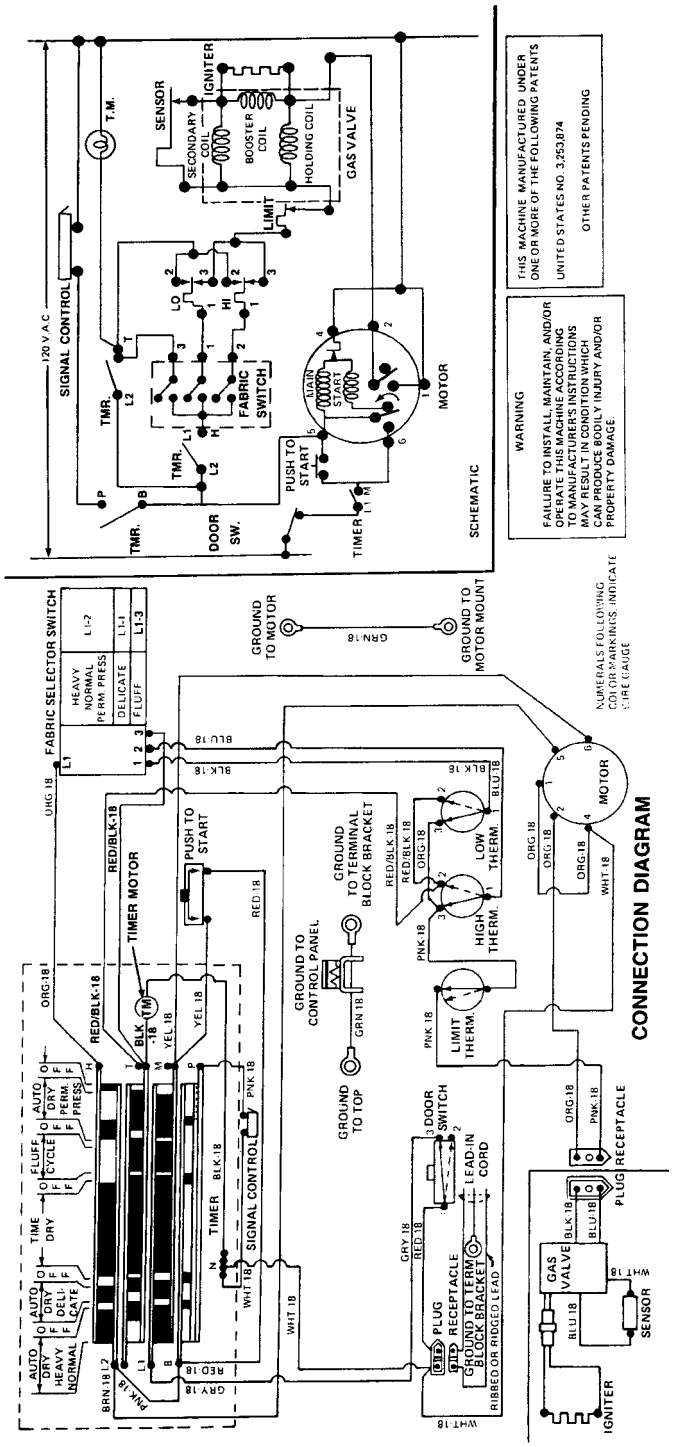
W030



MODELS HG4509, HG4490, HG4390 AND HG4209
Starting Serial No. SH965993

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WARNING

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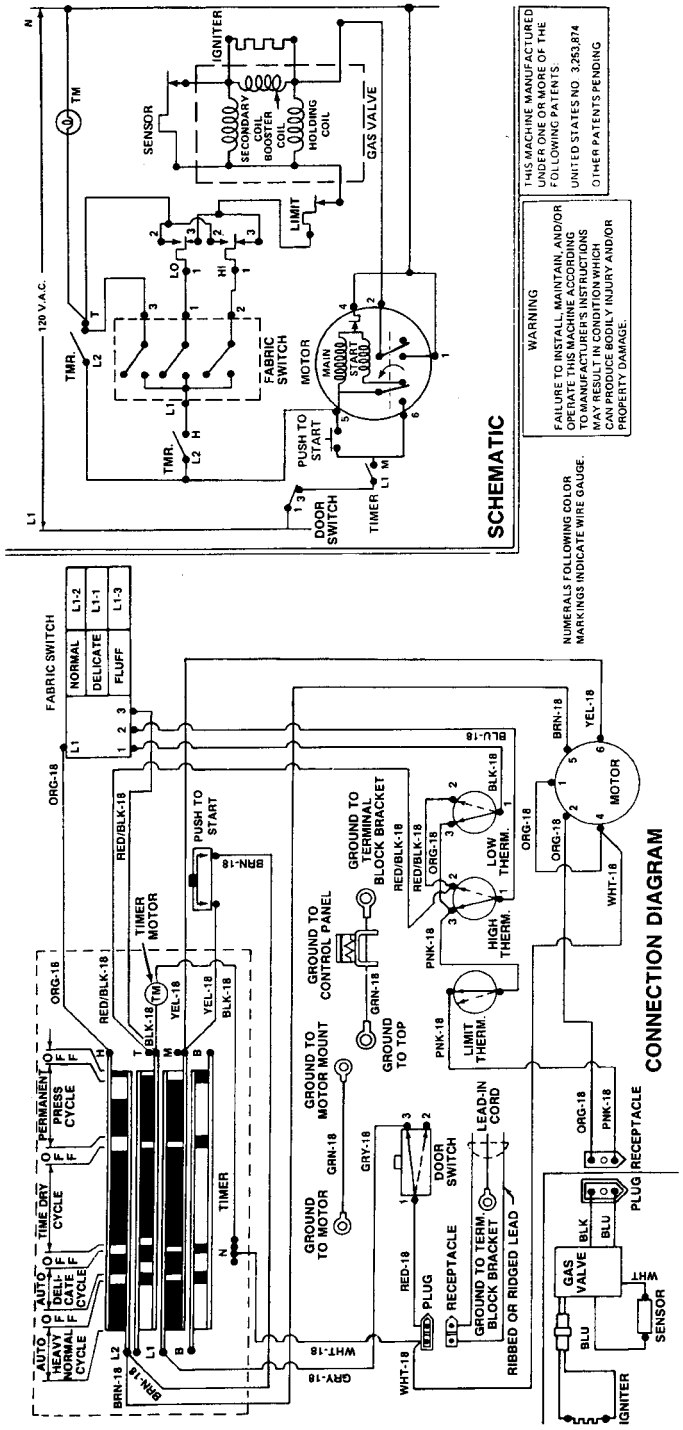
W030



MODELS HG4109 AND HG4009

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WARNING

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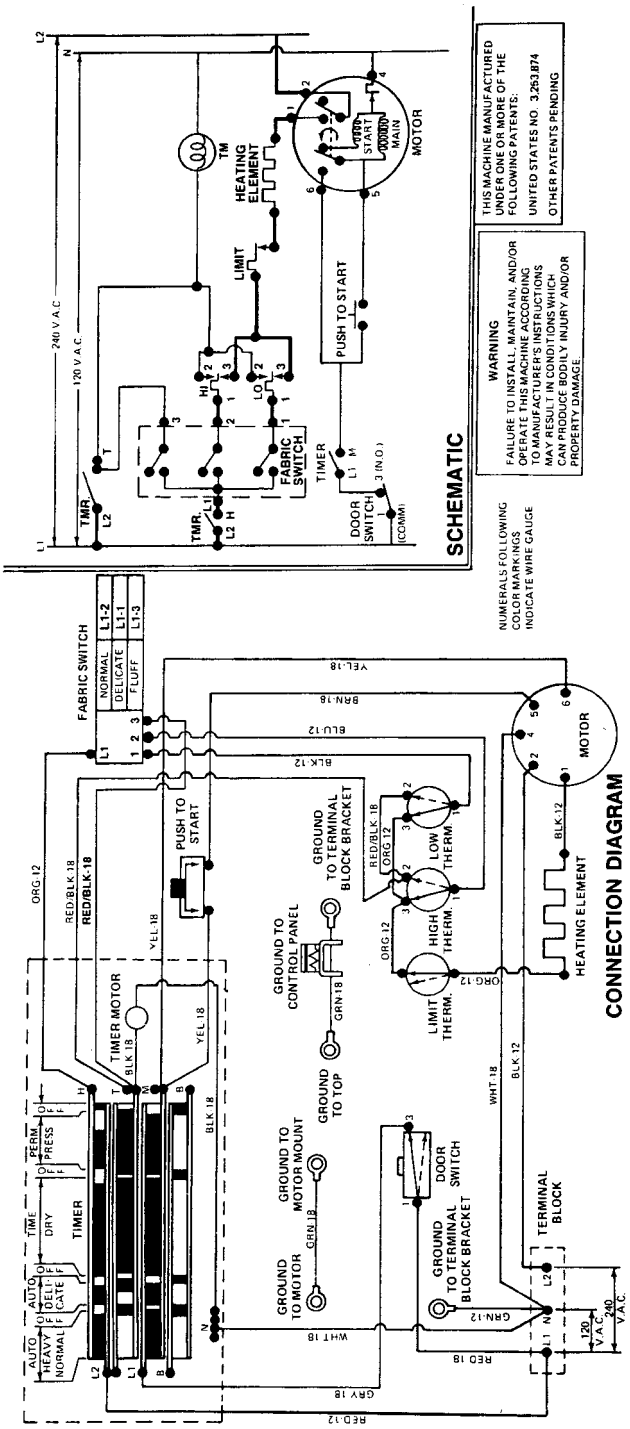
W030



MODELS HE4103 AND HE4003

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WARNING

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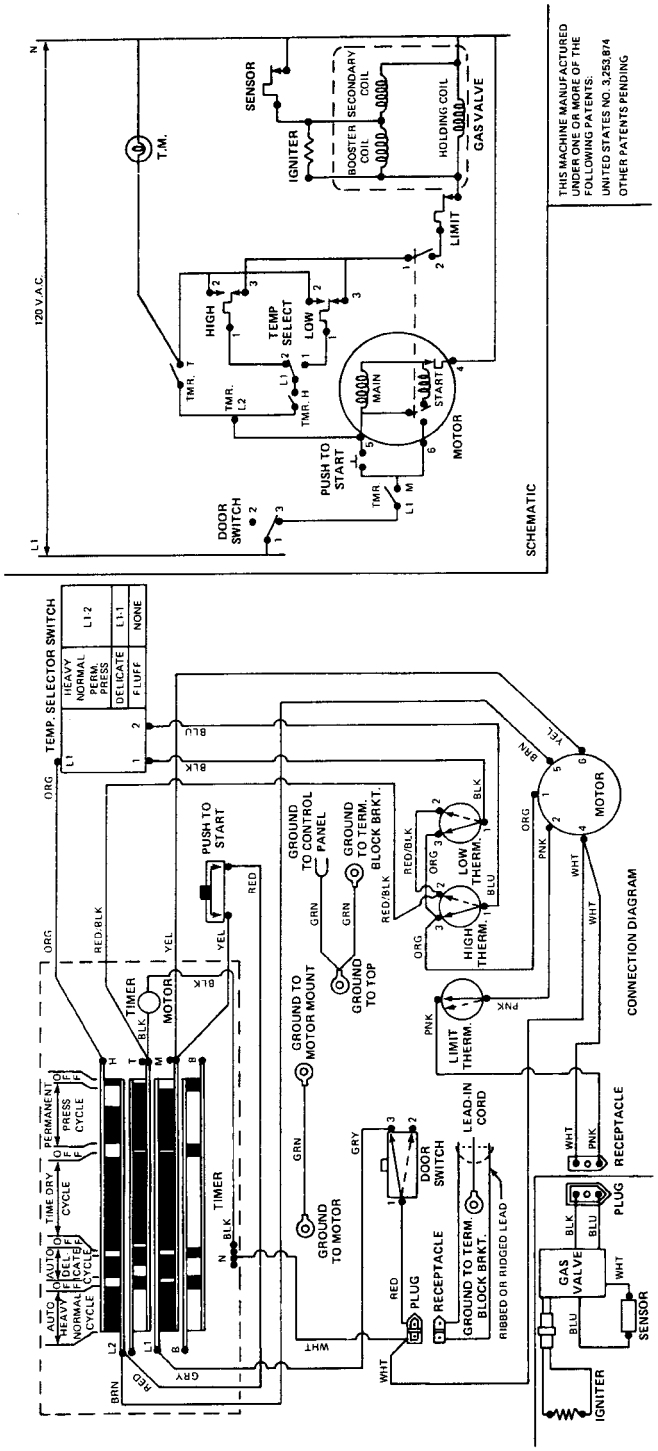
W030



MODEL HG4080

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WARNING

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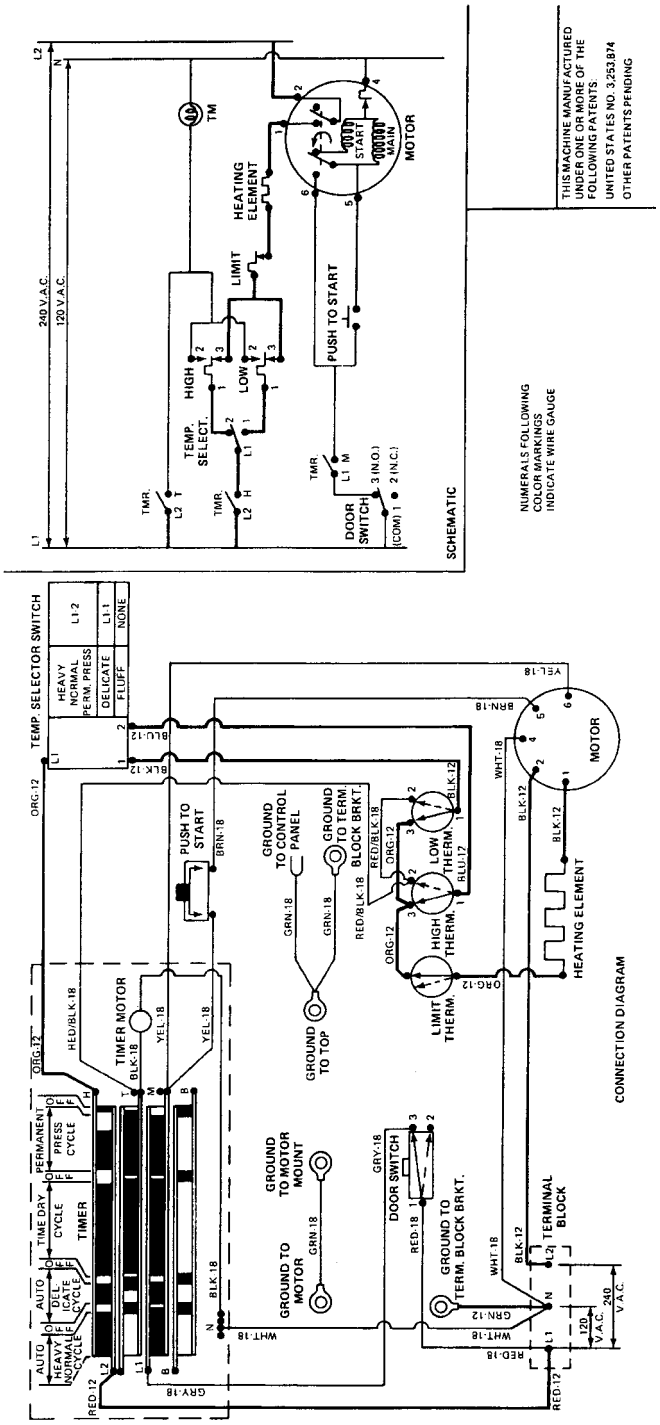
W030



MODELS HE4070

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WARNING

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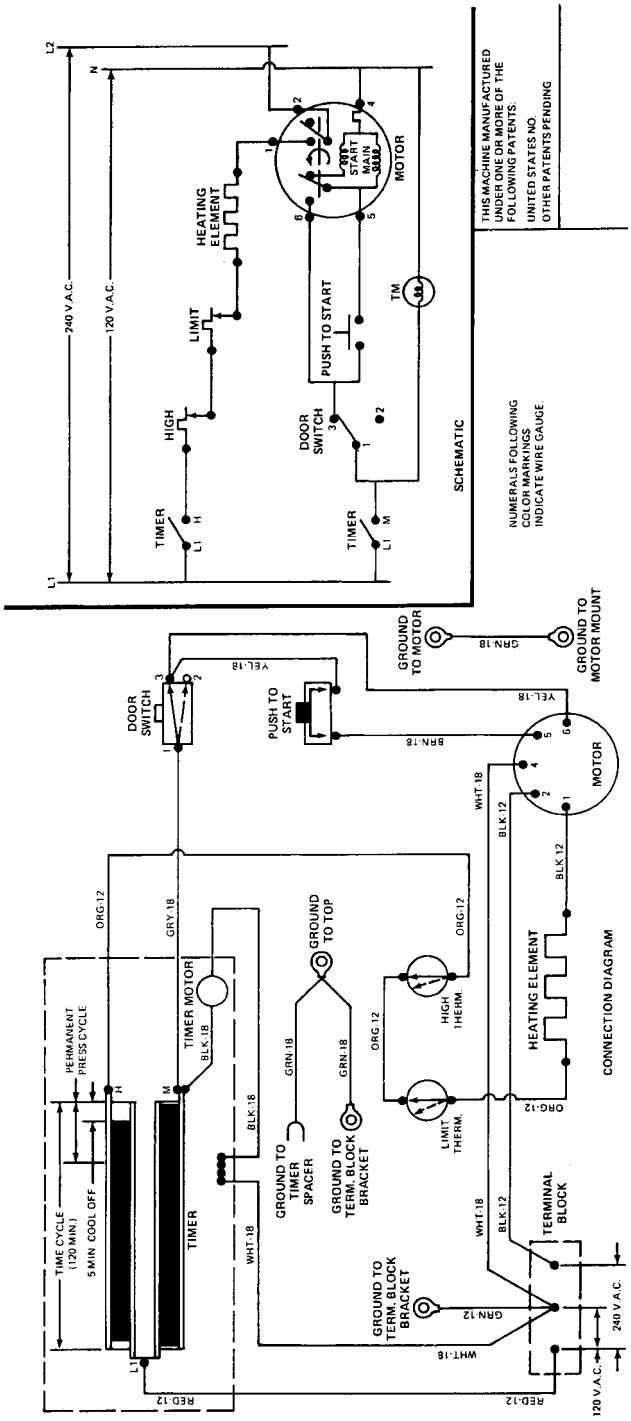
W030



MODELS HE3060

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WARNING

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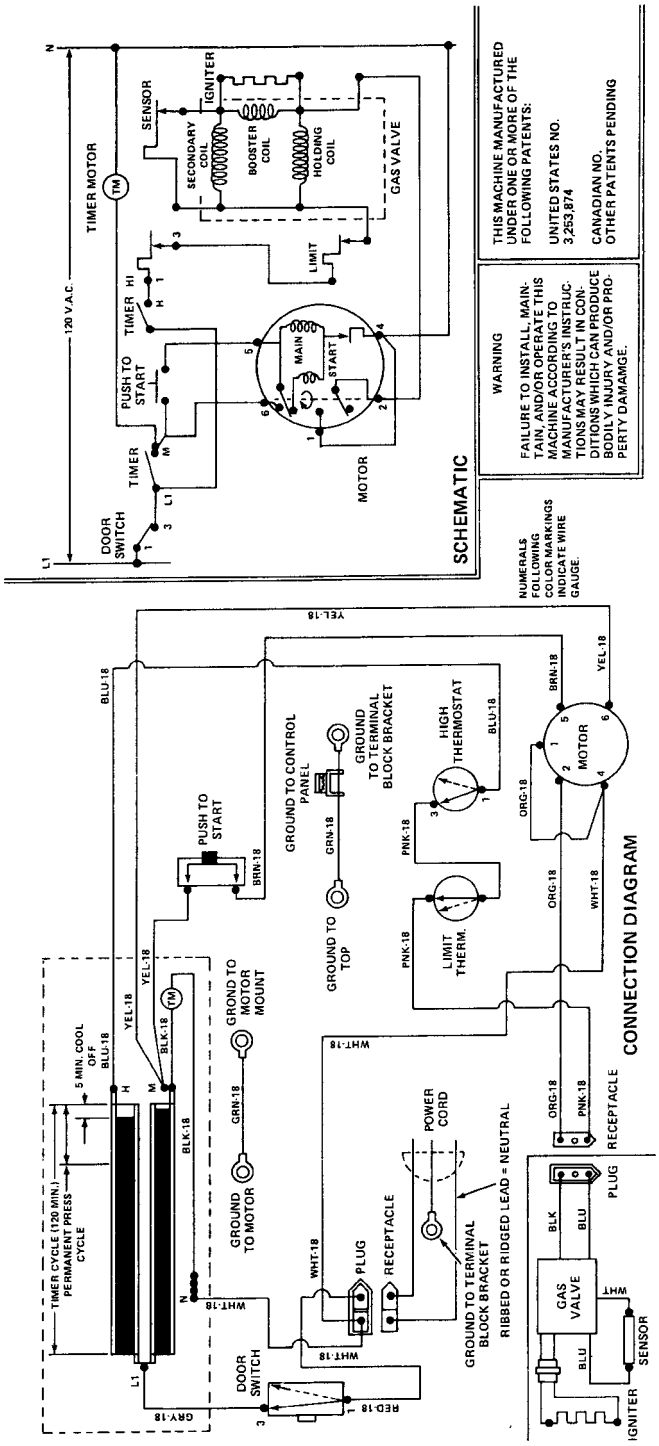
W030



MODELS HG3009 AND HG2090

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WARNING

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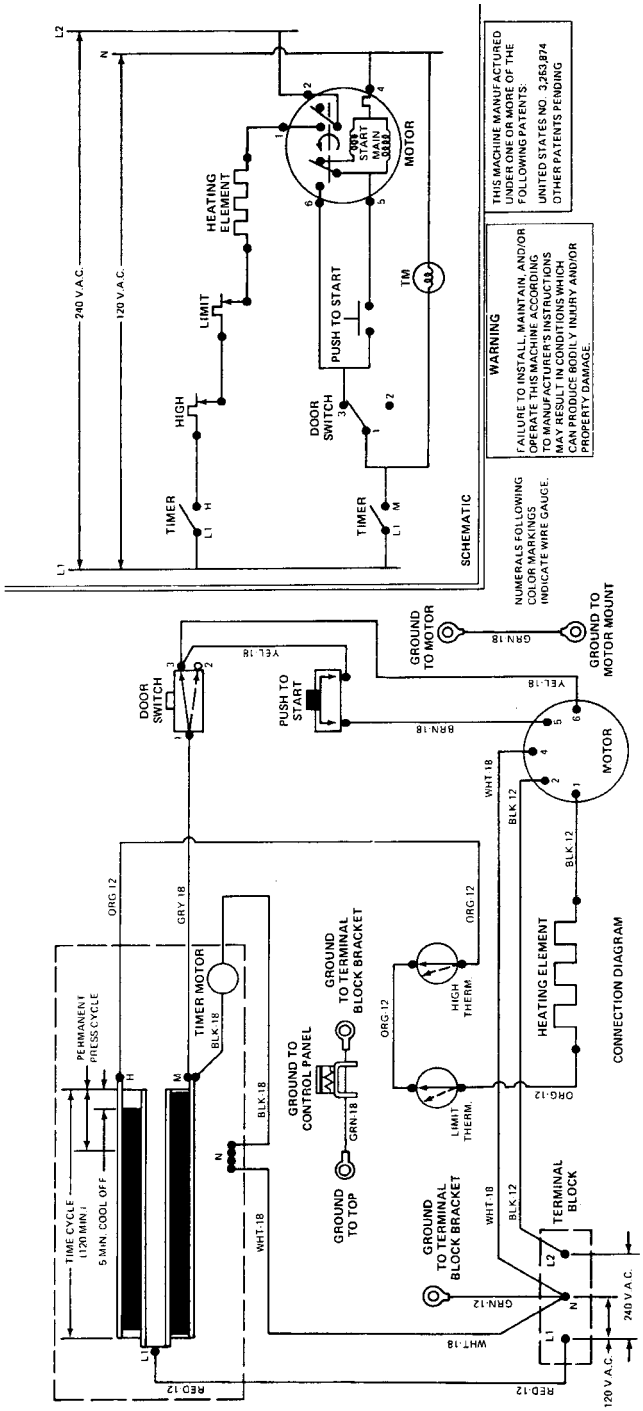
W030



MODELS HE3003, HE2050, HE2030 AND HE2003

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WARNING

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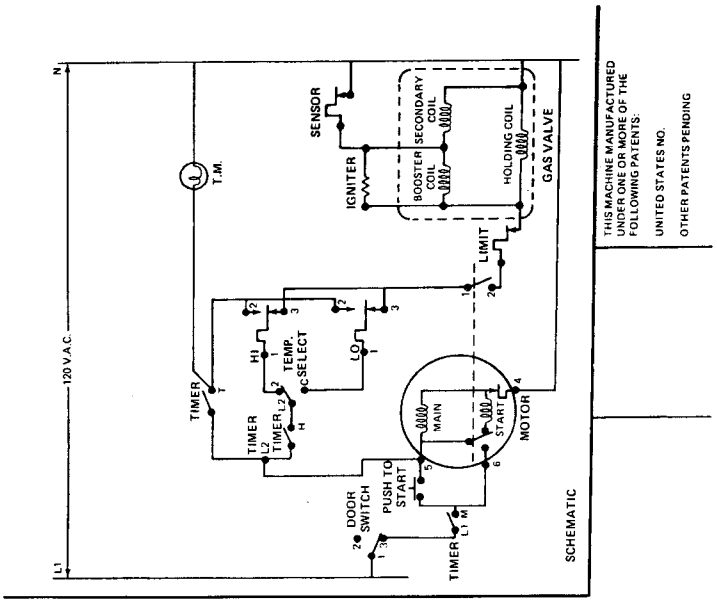
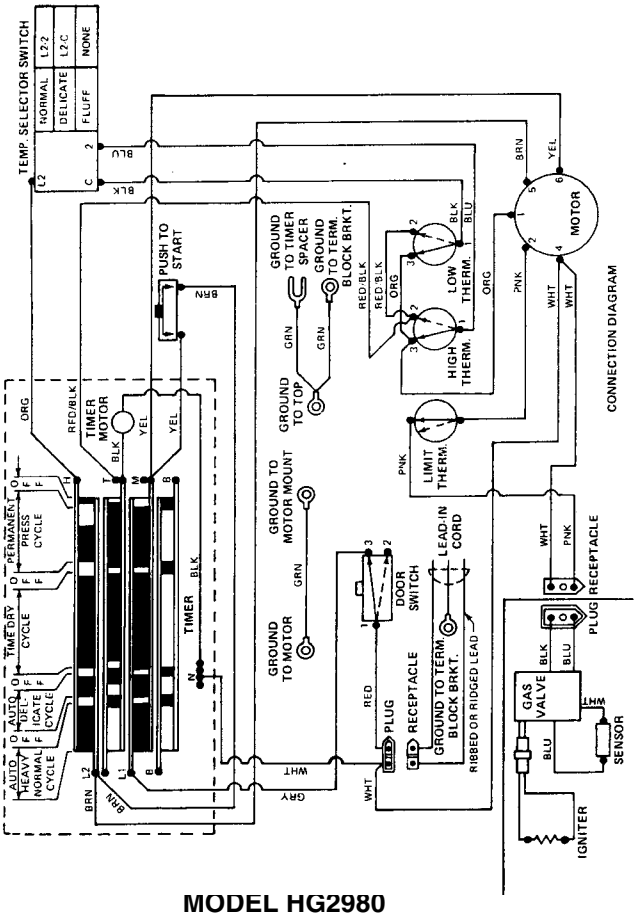
W030





MODEL HG2980

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WARNING

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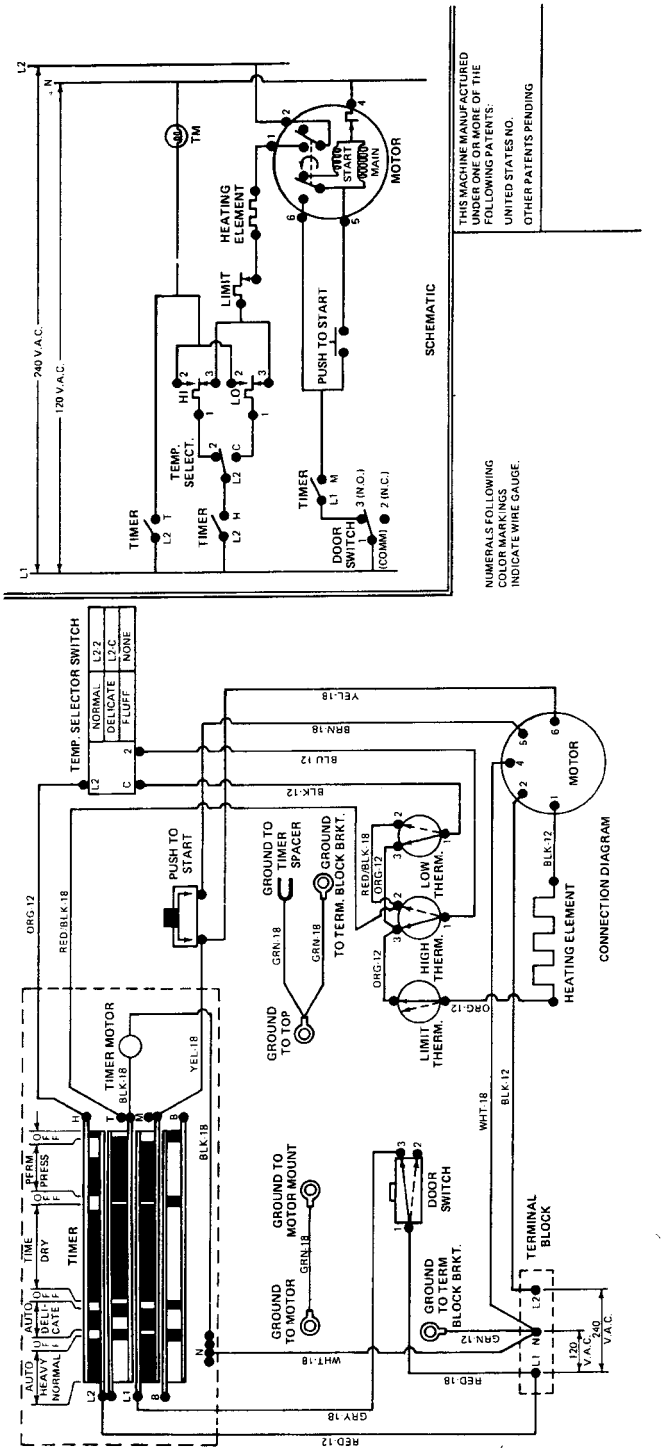
W030



MODEL HE2970

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WARNING

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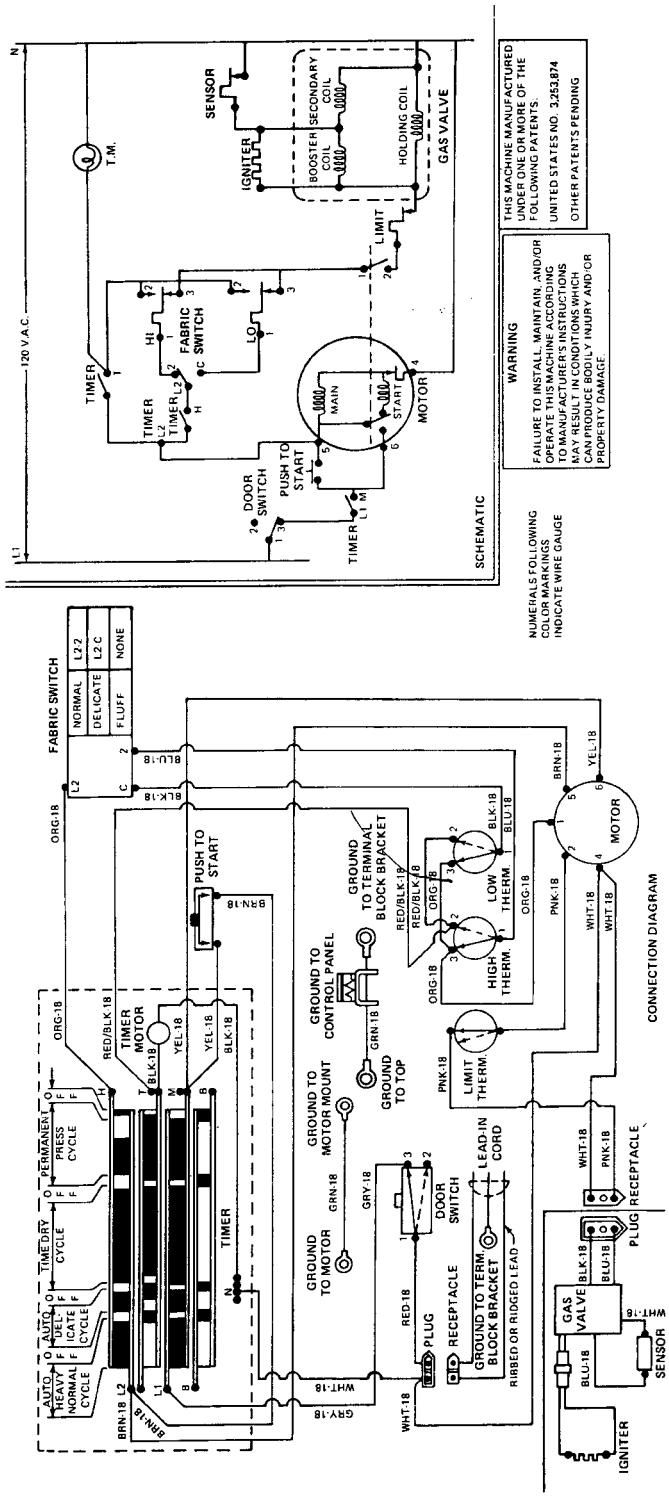
W030



MODEL HG2260

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WARNING

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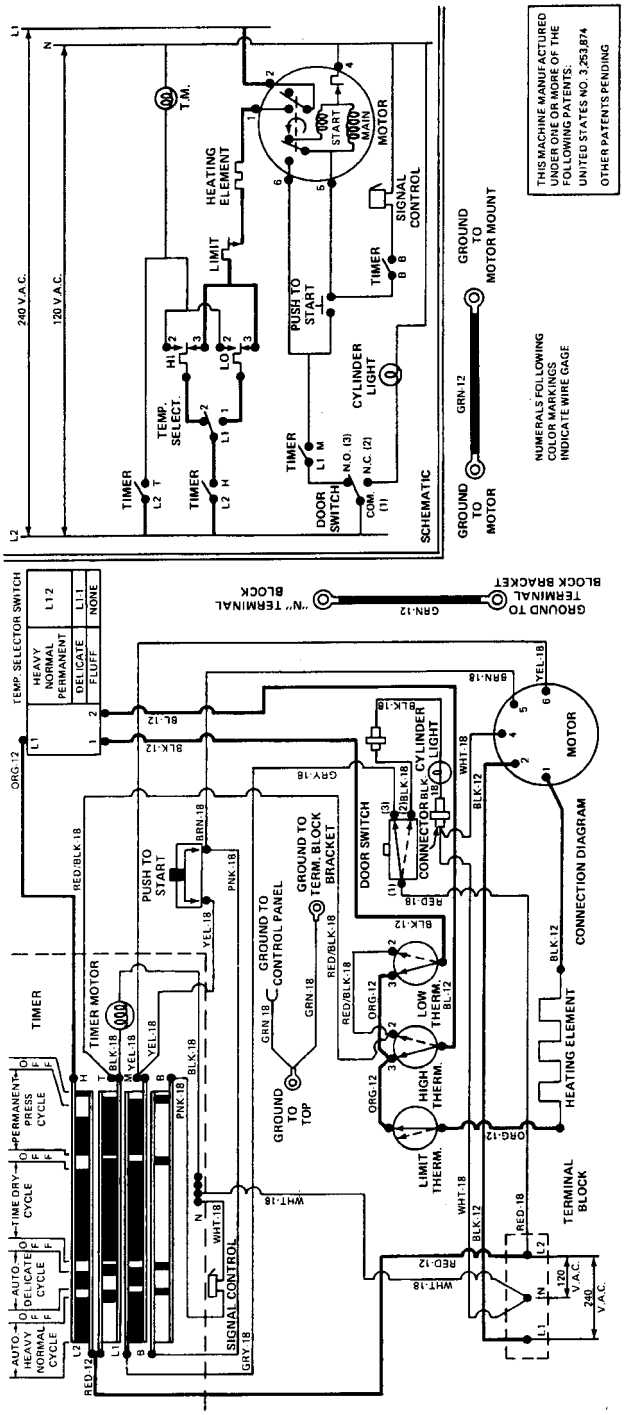
W030



MODEL FE0080

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